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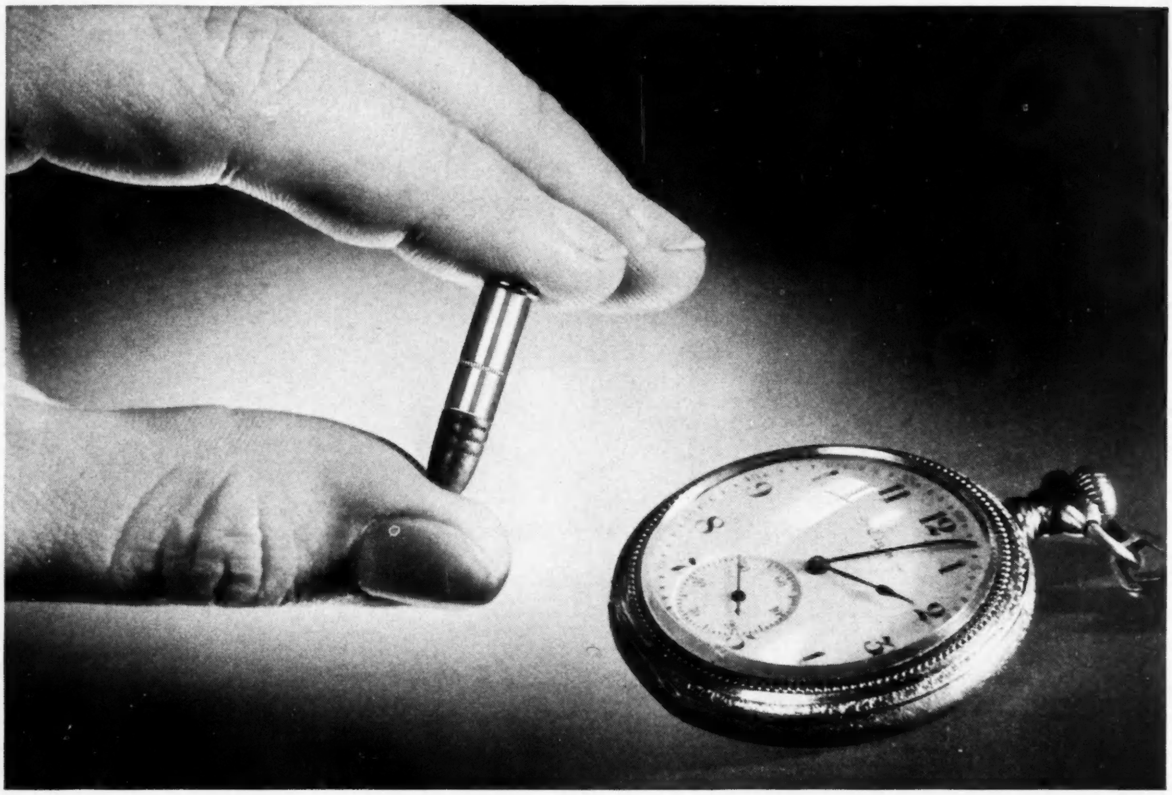

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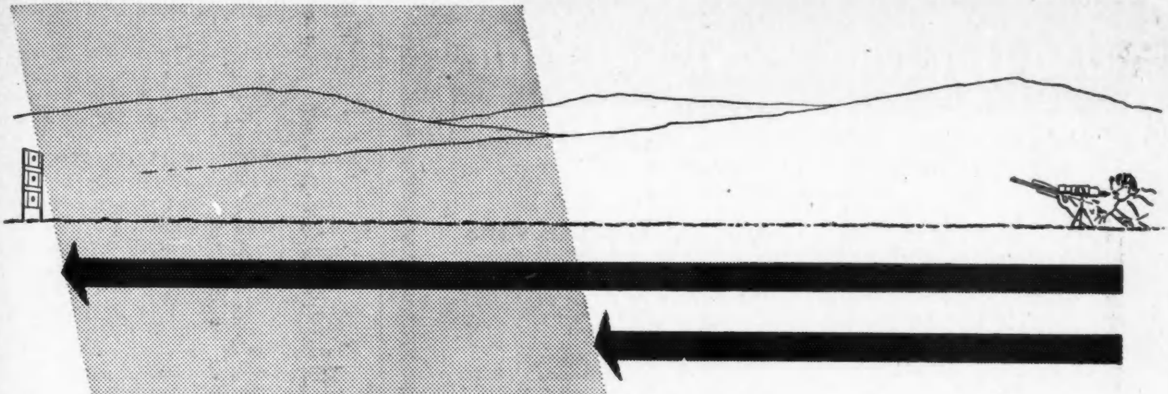

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RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters' is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer. All words defined are ued in a current article.

AUTOGENOUS WELDING—The process of fusing or uniting metals by the application of intense heat without compression, or by the use of a flux.

BRAZING—The joining of metals by the use of copper filings or spelter. Borax or some other substance must be used as a flux.

BROACH—A tool which is practically a series of chisels or cutting teeth for enlarging holes or changing their shape. The broaching process is now being used by some American arms firms in the production of rifle and pistol barrels. All rifling grooves can be cut simultaneously by the use of a broach.

COCKING PIECE—The projecting end of the striker extending to the rear, free of the bolt in bolt-action rifles.

DUPLEX LOADING—Load consisting of two charges of powder, one a fine-grained quick-burning type while the other is a coarse-grained slow-burning type.

EJECTOR—An automatic device which expels the cartridge case from the chamber or from its engagement with the lips of the extractor. Some types of ejectors both extract and eject simultaneously.

EXPRESS RIFLE—Term coined during the days of black powder to denote a rifle firing a bullet at more than customary velocity. The term Nitro-Express is of modern origin indicating the usage of high velocity smokeless-powder loads.

EXTRACTOR—An automatic device which draws the cartridge case from the chamber.

FIRING PIN PROTRUSION—That portion of the firing pin or striker which protrudes from the face of the bolt or breechblock. In center-fire rifles normal protrusion is between .060 and .065 inches.

FLIER—A bullet which for some accountable or unaccountable reason prints outside of the normal group pattern.

GAS CHECK—A small cap, usually made of copper alloy, which is pressed on the base of a cast bullet to protect the lead from the hot, high-pressure powder gases.

GERMAN SILVER—An alloy consisting of 60 parts copper, 20 parts zinc, and 20 parts nickel.

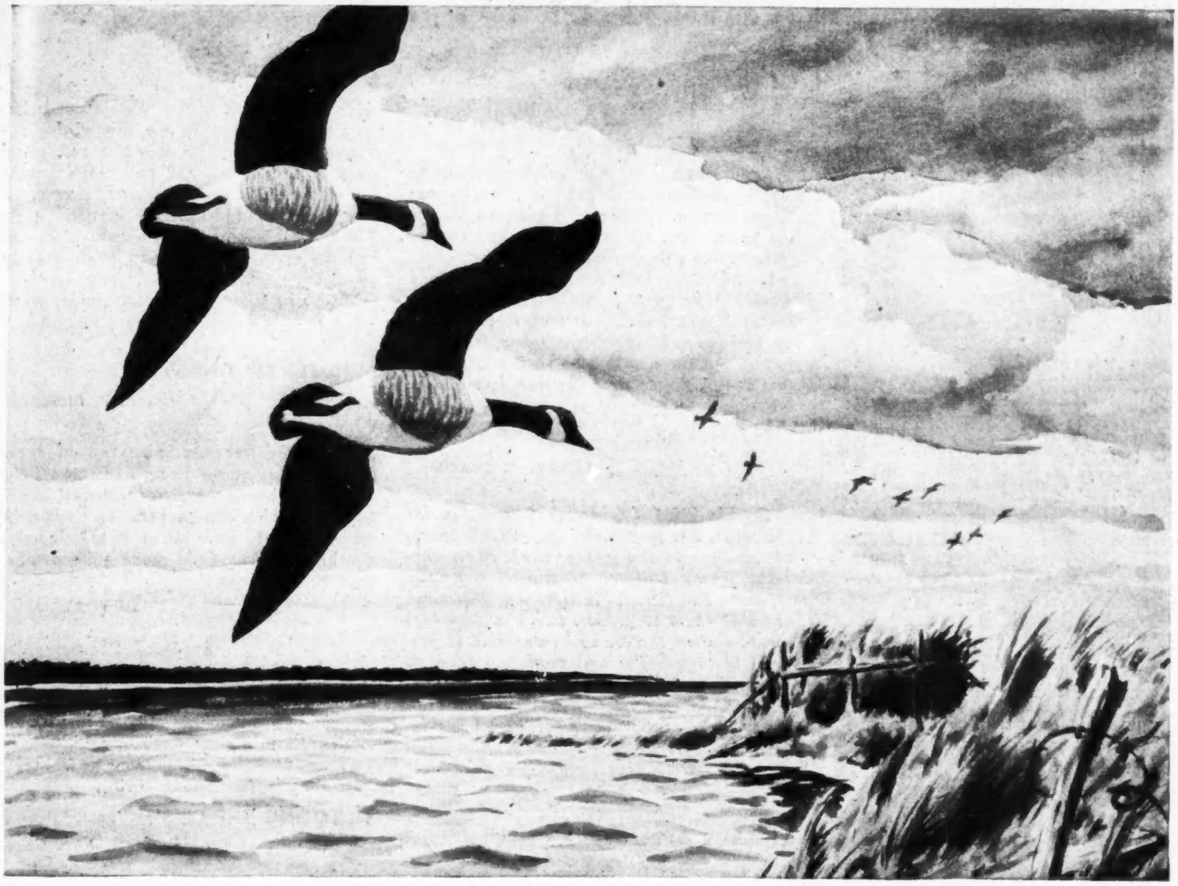
MAGAZINE CUT-OFF—Mechanical arrangement usually found on military bolt-action rifles which will temporarily prevent the feeding of cartridges from the magazine into the chamber.

PITCH—The angle which the butt of a firearm makes in relation to the line of sight.

PRESSURE DIPPER—Small ladle used to transfer molten bullet metal from the melting pot to the bullet mold, which is equipped with a lever-operated valve to permit emission of metal from the bottom of the ladle.

"R"—The letter "R" when stamped on the base of .30-'06 service ammunition indicates that the cartridge case has been heat-treated or annealed for use in rifles.

ROUGE—A fine abrasive paste or powder used for putting a high polish upon the surface of well-finished metals. It is usually applied by means of a leather rubbing pad or with a buffing wheel.



"GEESE OVER THE MARSH"

by Don Eckleberry

No sound but the monotonous lapping of waves and the wind rustling in the marsh. The hunter's eyes scan the cold gray sky. Then—from the North they come. Geese—and they're gliding in!

Every hunter knows the thrill of this moment. But, in many places game stocks are on a steady decline. It's up to every sportsman to do his part. Do your part to preserve our wildlife. Limit your bag. Join and support local and national organizations for game restoration and conservation. E. I. du Pont de Nemours & Co. (Inc.), Explosives Department, Wilmington 98, Delaware.

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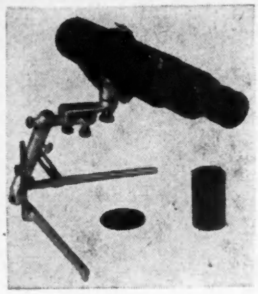

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ANTIGUN LAWS

Salt Lake City, Utah

Editor:

Thanks indeed for the timely warning on .22 rifle legislation in Utah . . . action was taken at once. However if you can believe the newspapers they claim the glory for informing the rifle owners.

If the NRA hadn't sent me the info I wouldn't have known the bill had been introduced and I do read the papers. News of the proposed legislation was in the newspapers but the article was such a brief one that it just didn't state the true facts of the bill.

Thanks again.

George S. Frazier

● *The NRA Legislative Service, so far this year, has sent more than 99,000 letters to members in California, Utah, Massachusetts, North Dakota, Michigan, Colorado, Arizona, and counties in Ohio and Wisconsin warning them of proposed legislation which would restrict the use and ownership of firearms in their states and counties. If, as is expected, restrictive firearms legislation is proposed in other state assemblies this year, NRA Legislative Service will promptly inform members in those states. For a report on today's legislative picture, see page 37.*—Ed.

WHERE'S APPLEBY?

Saddle Sores, Arizona

Editor:

I live up here in Saddle Sores, Arizona, and if yu even seen a bunch of hellions its these dam cattle ranchers kids. They cum into Saddle Sores and shoot out all the coal oil lanterns at night and they busted the winder at Buckshot Willis' sody fountain with a mule shoe and et up 3 freezers full of eskymo pastrys and drank 22 bottles of red pop.

I heard about this junior shootin sassiety you fellers advicate and studied and studied till I passed that instructors test to learn em how to shoot. The way I figgered it if there gonna be shootin' things it ort to be pieces of paper instead of Dick Stoudenmires fightin chickens like they did last week or craps like they do all the time.

I tuck the February issue of your shootin magazine and I held a meetin of all them young hellions and there pas and I started noratin to em and I showed em the pitchurs of that dad blamed feller in New York who had done such pearl handled wonders with them kids up there.

Ab Ketchum who owns the Broken Triangle spread and 2 of the meanest younguns that ever gave old Judge Orr a hot foot with a brandin iron spoke up and said Air them blame fool kids in that magazine the ones that policeman made sich goody-goodys out of? and I said yes Ab thems the ones. Ab got up and dusted off his elk hide chaps, got his two mean younguns by the hand and started fer the door. Looks like to me from them pitchurs he said about all that New York feller is teachin them kids is how to smoke cigarets. I think this pair of broncs'll pick that up soon enough by theirselves he said I caught this big'un with about half a plug of Star Navy in his jaw yistidy . . . Before Ab got to the door the rest of em were on there way and first thing I knew I was standin there wavin your silly magazine in the air and talkin to myself.

When I got outside them dam mean kids had cut my saddle girt and stuck a cactus appul under old Roanys tale bone.

Wish you fellers had it stuck under yourn.

Luke Abercromby

MINUTES OF ANGLE

Hamilton, Montana

Editor:

Seems like someone has taken on a task as big as moving the Rockies east of Denver, although when a bunch of riflemen get together anything can happen. If I remember correctly, there were 60 of those minutes in a degree, which would make quite a difference at 300 yards.

C. V. Fullmer

Bradford, Pennsylvania

Editor:

When I went to school . . . there were 60 seconds in a minute, 60 minutes in a degree, 90 degrees in a right angle, etc.

O. M. Crooks

SHOOTING THE CB'S

Endicott, New York

Editor:

I enjoyed very much the fine article in the January issue entitled "Shooting the CB's" and would like to see more of the same. However, I would like to caution Mr. Noble and all others who shoot muzzle-loading percussion guns that loading with the hammer cocked, as was the case in the pictures which accompanied this article, is a very bad practice. The fulminate from previous firing will sometimes adhere to the nipple and is sufficient to fire it if the hammer should be snapped, or jarred off. I like to see people enjoy shooting these muzzle-loading guns but I don't want to see anyone run through with a hickory rod.

Richard D. Barton

Woodstock, Connecticut

Editor:

I have just read H. V. Noble's article and enjoyed it very much, since I have thrown a lot of lead with my .44 Remington.

But like all shooters, we disagree on a point or two. In this case I think a greased patch is better than grease over the ball, since the latter can be awfully messy.

In loading, pour in the powder, then insert the slightly oversized felt patch (about .45 wadcutter is used) that has been soaked in hot grease. I use Ideal Stick Lubricant, but one can make his own mixture, melted in a small pan. Then seat the bullet tightly against the patch. This prevents firing of other chambers, keeps fouling to a minimum, and makes loading easier in the field or on the range.

Chas. L. Andrews, III

BRITISH GUN LAWS

Plymouth, England

Editor:

The great idea at present in this island is to cut out all handguns from the population. Even our banks have had their revolvers taken away. Remembering that we have a minimum of 70,000 deserters from the forces (this was in the London papers) without ration books (no food) and without identity cards (no work), and that the place is full of battlefield souvenir handguns, this disarming of the civil population just about suits these 'gentlemen.' Our Firearms Act, with its numerous amendments, is now very strict, and anything (excluding air rifles and air pistols, so far) with a barrel less than 20 inches is considered 'concealable.' I had to get permission to retain a Winchester 10-gauge saluting cannon! — hardly a vest-pocket weapon! I hope the antigun half-wits don't succeed in crushing your population.

J. T. PRANCE

LOST WATCH

Beverly Hills, Cal.

Editor:

We have a mailing list made up of dealers and individuals who have answered our ad in the RIFLEMAN and to whom we send price lists. In sending out these lists my wrist watch dropped off of my arm and into one of these open envelopes on my desk.

The watch is oblong, set with diamonds, and with diamond ends and the initials L. C. M. on the back. I offer a reward, of course.

It is just a last chance, but I am heart-broken about it as it is the last thing my father gave me before he died.

(MRS.) LUCILE C. MOORE
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KEITH PISTOL LOAD

Salmon, Idaho

Editor:

I hate to make a kick but this one is necessary. In Mr. Rice's excellent article on page 45 of the February issue, I have been grossly misquoted, either by our friend the late J. Bushnell Smith or the printer's devil. At any rate I have never used nor recommend 22 grains of 2400 in the .44 Special cartridge at any time.

My book *Sixgun Cartridges & Loads* published by Samworth so long ago is further proof and came out before Smith ever loaded a round with my bullet. My recommendations were (and still are) 18.5 grains Hercules 2400 for my 250- and 235-grain hollow base or hollow points as well as the 250-grain solids.

Many years ago, in fact exactly 13 years now, A. E. Ellinger was out hunting with me and some of Smith's first heavy loads were brought along. He was then loading 19 grains 2400 with my 250-grain solids—against my advice. He had written previously asking for the load and I gave it to him, then he like a lot of others increased it a bit. Just a couple years ago he wrote me that he had now come back to my original load of 18.5 grains and found it gave highest velocity of all loads tried. I worked the load up to 20 grains and found it then caused considerable leading and was

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too hot on the base band of the bullet so cut it to 18.5 grains 2400.

Guess my old friend Gene Hicker won't swap shots with me any more at Missoula or Perry or stop at the ranch for an elk steak and a pistol match. Hate to see him go that way.

ELMER KEITH

● *Little hope remains for Gene Hicker or Canadian small-arms expert Hank Forsythe, both lost in a Newfoundland plane crash late last year. On January 25 the War Department officially declared Colonel Hicker missing and presumed dead.*—ED.

OLD GUN ARTICLES

Cleveland, Ohio

Editor:

The superb examples of color photography on THE RIFLEMAN covers of February 1949 and June 1948 are in keeping with research studies on Boutet and the Cominazzos as only Stephen Grancsay could have written them.

I feel sure that any reader of THE RIFLEMAN who has the slightest appreciation of the aesthetic appeal of fine craftsmanship in a gun will have enjoyed and profited by Mr. Grancsay's excellent articles.

By all means continue these research articles so long as Mr. Grancsay can be prevailed upon to continue his hard work. And let no one forget that back of this facile and entertaining prose there was first one helluva lot of hard work and mental sweat as insurance against contradiction.

WALTER HEIGHTSHOE

BOOK REVIEW

Greenfield, Mass.

Editor:

I was particularly interested in Mr. Scofield's review (February) . . . of *The Antique Pistol Book* by Smith and Swanson.

While the reviewer was primarily correct in noting the fact that the book was "chock-full" of errors, he nevertheless gives it a long review, and the reader is left with the impression that it still may be worthwhile for the illustrations alone. . . . I should like to state quite emphatically that never in my experience has such an inaccurate book been foisted upon the gun-collecting fraternity. For a new collector to use this book as a reference work . . . is absolutely criminal. This volume can do more to hurt the antique gun-collecting game than three good reference works can do to boost it.

JOHN S. DUMONT

Great Neck, N. Y.

Editor:

I have a copy of *The Antique Pistol Book* by Smith and Swanson and having read your review of this book I am amazed. Your first criticism is the unpardonable error of misspelling. I believe you are right and I'm sure this is rather bad. You say the book would be better done photographically. I agree but wish to ask you where I can purchase such a book done well photographically for the small sum of five dollars and fifty cents. In my opinion the book is very well illustrated . . . also the cost of printing is less. The errors in spelling you speak of are negligible. I believe the authors did a fine job—deserving much more credit than they received. I sincerely believe a lot of readers may be misled by your critical review.

HENRI SILZ

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Incidentally . . .

Something is always taking the joy out of life. Just about the time Bill Appleby slowed down and we reckoned the magazine was getting so good that even he couldn't find anything wrong with it (and we'll take bets that this gets a rise out of old Bill) . . . staff artist Jim Berryman put us in the doghouse with a couple of eagle-eyed readers down New Mexico way. Jim, they claim, doesn't know his rivers. In the second of his "Happy Hunting Grounds" pieces (RIFLEMAN, November) Jim miscalled the source of the Pecos River. Letters from the aforementioned New Mexico readers promptly challenged Jim's statement.

In itself, that isn't too bad. Like everyone else, we expect to make mistakes once in a while. But what aroused Jim's ire was the effort he had made in the first place to see that the article was free of errors. It had been checked before publication by various personages familiar with things New Mexican . . . including Elliott Barker, who is New Mexico State Game Warden and, obviously, one of the better-informed men on rivers and such in his part of the country. But Barker, somehow, let that one get by him.

This . . . added to Jim's rightful ire at the gent who claimed he had the horns backward on one of his antelope (when he'd taken his details from a photo of the world-record head) and some similar criticisms, some justified, some not . . . got his dander up. Berryman is determined not to be caught again.

☆ ☆ ☆

Apparently that stern resolution of Jim Berryman's extends even to pieces he doesn't write. When Jim turned in the lead illustration for Walter Rodgers newest opus (page 35, this issue) it arrived complete with a detailed fact sheet which we think is good enough to pass along. As you read it you'll realize that James Thomas Berryman is not a man to let his art (or his writing) be trifled with. Wrote Jim: "To provide you in advance with all information on the illustration for the March Rodgers piece, I am now and herewith detailing every square inch of said picture.

"*The rifle* is a Marlin 336 carbine, .30-30; stock, battered walnut of nondescript grain; open rear sight; twisted, bent bead front. *The hunter:* a 60-odd year old rancher of Bernalillo County, New Mexico. His hat, a cheap but serviceable Stetson, cost about $12; shirt, all-wool from store in Albuquerque; jacket, fleece-lined 'hard-woven drill' which snags on everything; pants, genuine Levis, purchased at Babbit's in Flagstaff; boots and belt handmade. *The scenery:* painted from a photo I made in Northern New Mexico, a section of the flats below Sandia Canyon. The cholla bush in the foreground is strictly Arizona, but I liked it and stuck it in.

☆ ☆ ☆

"In closing, I should like to make a query. Why do subscribers always send their bouquets to the author or illustrator, but air-mail special their 'that stupid jerk' masterpieces to the editor?"

All in all, Jim's documenting should take care of any queries about that illustration on page 35.

☆ ☆ ☆

By way of solace to Jim, the following should be of interest as proving that editors get their comeuppance as often as illustrators. Sara MacDuff Austin, who does a column called 'You Meet Such Interesting People' in the Cincinnati *Times-Star,* takes us to task for the little 'author's blurb' which appeared with the story on muzzle-loading pistols in the January RIFLEMAN. Seems we said that Mrs. Noble (wife of the writer of that article) 'incidentally is also a pistol shooter of considerable prowess . . . she won the women's national pistol title of the National Matches at Camp Perry in 1947'. Opines Miss Austin, "That remark is just like a man! A women's national pistol champion is merely a person of incidental interest. Well, I'll bet Mrs. Noble can outshoot the editor of the RIFLEMAN."

For that generous understatement, our gratitude. Just how badly Mrs. Noble can outshoot the editor of the RIFLEMAN is something we hope will never be put to a test!—J.S.

THE AMERICAN RIFLEMAN

COVER

If you happened to see Gloria Norton walking down a tree-shaded street in Woodlands, California, you'd never guess that the slim, straw-haired girl is the best handgun shooter of her sex in the country, and holds three-quarters of the current national women's records. Gloria, who started shooting when she was eleven years old, is today one of the toughest people to beat in Far Western pistol competition. For more about the Pacific Coast's wonder girl, read Lee Echols' story starting on page 11.

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The AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

VOLUME 97 NUMBER 3

MARCH 1949

Call to Action 10
AN EDITORIAL

Woodland Wonder Girl 11
BY LEE ECHOLS

Making Your Own Bullets 14
BY AL BARR

Bagging the Big Cats 18
A PICTURE STORY

Winning Skeet Scores 22
BY T. E. INGRAM

Set-Trigger Mechanisms 25
BY GEORGE E. LARSSON

Farquharson Single Shot 27
BY MORGAN G. HOLMES

Firearms of the Mediterranean, Conclusion 30
BY STEPHEN V. GRANCSAY

Too Lazy to Hunt? 35
BY WALTER R. RODGERS

Legislative Box Score 37

Remington's New M-48 39

Old Coach 41

☆ ☆ ☆

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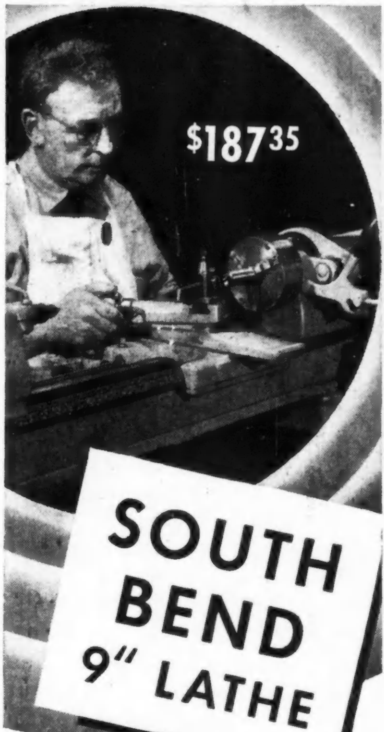

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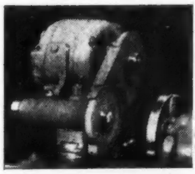

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CALL TO ACTION

Last month we commented editorially on the Swiss plan for maintaining an adequate defense program with a minimum budget.

In our issue of June, 1947 we described the Russian plan, which is similar to the Swiss in purpose and even broader in scope.

It is a striking fact that the world's oldest republic and its greatest police state are using the same basic plan to obtain maximum defense at minimum expense. *Fundamental to both plans is the government-encouraged civilian rifle club and the government-aided small-arms competitive program.*

In Section 113 of the National Defense Act of 1916, the American Congress established a very similar national policy. This fact will undoubtedly surprise most Americans and Congressmen of this generation because the legislative authority has never been implemented by adequate appropriations or planning. Its value will be completely lost unless the present Congress is aroused to action.

This year's Department of Defense budget of approximately $1,075,000 for the National Board for the Promotion of Rifle Practice was reduced by the President's Budget Officer to $160,000. This amount is inadequate even to provide issues to junior rifle clubs.

Every American who believes that a reasonable program of civilian small-arms training will provide one practical means of improving our national defense should immediately communicate such views to his own Congressman. The appropriation for the National Board for the Promotion of Rifle Practice should be increased from the Budget figure of $160,000 to the $1,075,000 originally requested in the War Department preliminary budget. This amount will only provide for limited issues of arms and ammunition to junior and senior clubs and for regional and national .30-caliber matches. It is a vital appropriation if America is to have a fraction of the small-arms training program being followed in Russia and Switzerland. It is only 1/800th part of the $800,000,000 set up in the President's budget for Universal Military Training. This enormous sum will not be used for the purpose for which it was budgeted because Congress is not going to enact a Universal Military Training bill at this session. If the $1,075,000 is provided for the National Board for the Promotion of Rifle Practice, it will provide a partial substitute for Universal Military Training by encouraging basic and advanced small-arms training for some 400,000 American civilians while also stimulating small-arms marksmanship throughout the regular Services, National Guard and Reserve.

General Bradley, Army Chief of Staff, has said: "Ultimately a war between nations is reduced to one man defending his land while another tries to invade it. Whatever the devastation in his cities and the disorder in his existence, man will not be conquered until you fight him for his life."

War Secretary Patterson repeatedly stated that less than two percent of the men inducted to fight for their lives and for the life of our nation had any previous training in the handling of rifled small arms. Basic training in individual marksmanship for every able-bodied American *remains* the foundation of an adequate national defense program! Every patriotic American, whether or not he is now a member of a civilian rifle club, should ask his Congressman to see that the National Board for the Promotion of Rifle Practice is provided with reasonable funds to carry out its mission.

Turn now to page 38 for a list of the Congressmen who must recommend for or against this appropriation.

C B Lister

IF YOU'RE ONE OF THOSE DIE-HARDS WHO THINKS PISTOL SHOOTING ISN'T A WOMAN'S GAME, TAKE A LOOK AT GLORIA'S RECORD

YOU'LL FIND the sunlight-flooded town of Woodland, California, just a few miles northwest of the State Capitol on highway 99. You'll drive down the wide, tree-lined streets and you'll stop and talk to the friendly people. You won't talk to them long before they start telling you about Gloria Norton.

Gloria is some punkins up around Woodland. She is some punkins anyplace else where the acrid fumes of gunpowder indicate a big West Coast pistol tournament. She is literally the Wonder Girl of the pistol range. I want to tell you about her.

Take a petite, well-stacked, straw-haired little gal, give her a pair of eyes as blue as the Caribbean Sea, equip her with an extremely likable disposition and put a smoking pistol in her steady right hand and there she is. Gloria Norton . . . the greatest woman pistol shooter who ever lived.

And for doubting Thomases who haven't had the dubious honor of trailing her all the way through a long, gruelling three-gun aggregate, I smugly refer to the record. She currently holds twelve of the fifteen recognized women's records, has broken one all-time national record and has tied so many of them it has become routine stuff.

On the West Coast, where pistol shooters come in bunches like grapes and where there are more high scores fired than in almost any other part of the country, Gloria has had a bad tournament when she finishes out of the top three in the grand aggregate.

And the amazing thing about this is the fact that West Coast shooters don't mind having her do it. She is probably the most popular shooter in the nation right now and a woman doesn't get that assignment simply by getting up on the firing line and making monkeys out of most of the male contenders. She is one of the finest sports in the game. To my knowledge she has never challenged a score or protested a decision.

True, when she moves up on the firing line, those blue eyes take on a confident, determined look that you don't find in them when she's telling you about the latest exploits of her two fine sons. When she prepares her equipment she's as unconcerned as a bear in a picnic lunch box and you wouldn't think she even suspected there were forty spotting scopes on her target. She exchanges a few pleasantries with her neighboring shooters and then she unhurriedly goes about the business of whaling the tar out of everybody on the range. When she looks down over those pistol sights she's as dangerous as a home-packed parachute . . . but when she gets off the firing line, she never even talks pistols. Whatever score the statistical office racks up suits her to a T.

What is there about this girl's makeup that puts her over the rest of her sex like a teepee over a Kiowa Indian? Although the nation boasts hundreds of women pistol shooters, Gloria alone of all the crop can hold her own with the best of the men. At the big monthly San Francisco Police Pistol Tournaments from January to June, 1948, she piled up an average, computed from the scores fired during that period, which was second only to Olympic-team shooter Quentin Brooks. She bested such outstanding West Coast shooters as Bob Chow, another Olympics man and winner of the 1948 Regional Championship, and Jack Ahern, spark plug of the San Francisco Police Team. These matches have a greater attendance than any like matches in the nation and there are so many top shooters there that I have seen a 296 over the center-fire Camp Perry Police Course place eighth. She won the .22 aggregate at the 1948 Regionals in San Francisco and could easily have been in the top three in the grand aggregate but for her .45-caliber slow-fire scores, which, although Gloria would be the last to say so, can be attributed to a faulty gun. At the 1946 Regionals she tied Basil Starkey for *(Continued on next page)*

By LEE ECHOLS

Woodland Wonder Girl

first place in the grand aggregate and lost out on a Creedmoor.

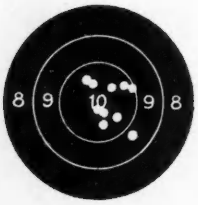
Probably Gloria's phenomenal success lies in two directions. One is her early sphere of activity. The other is her composure on the line, which has aided her in effecting determination . . . the will to win.

Her early influence was a natural. She is the daughter of Captain Henry Jacobs of the California Highway Patrol, who has been a big cog in the California pistol-shooting wheel ever since Emmett Jones got his first misfire. "Jake" and Gloria are a legendary father and daughter combination which is wonderful to behold. Gloria idolizes him and Jake has passed on to her those fine qualities which for so many years have characterized him and the California Highway Patrol teams.

Jake was telling me how it all started.

"In 1933 I was building a range near Woodland," he said. "In those days we thought it imperative to dig a pit and I was on the business end of a shovel and had got down so deep I couldn't see out. The range site was near the city dump and every time I would stop to rest I would hear what I thought was someone walking around above me. I would get up out of the pit and look but couldn't see a thing. I was just about to the point where I was ready to check in for medical observation when I made a superhuman effort and got out of the pit almost as soon as I heard the noise. I found that it was rats running around the dump.

"Gloria at that time was eleven years old and I had given her a .22 rifle for her tenth birthday. She had had some instructions in sight alignment and squeeze and a lot of safety precautions and I decided I would bring her out with me the next day and see how she could do on the rats.



"Well," Jake said, "Gloria killed about fifteen of them with her rifle without a miss and I asked her how she'd like to try it with my revolver. She fired eight shots and killed eight rats.

"This started me thinking," Jake said, "and I put up a standard target at twenty-five yards and had her fire ten shots at it slow fire. She shot an eighty-eight her first attempt and I knew I had a pistol shooter in the family.

"She trained every day for the next two weeks and then I entered her in a twenty-shot slow-fire match at Fort Funston. She placed third with a score of 195 and the die was cast."

It certainly was. By the time Gloria reached her fourteenth birthday she was winning big matches against such all-time greats as Jake Engbrecht, Mark Wheeler and Hank Adams. She was breaking women's national records right and left and with it all she was making herself one of the best-liked people in the shooting game.

When she was 17 years old she accomplished something that few shooters attain in a lifetime. She broke an all-time National Record by shooting a 299 over the Camp Perry Police Course with her deadly little rim-fire gun and it stood for over a year.

The war years came along and Gloria traded her pistols for a pressure cooker and a washing machine. In 1942 she married a big, congenial guy named Warren D. Norton who wouldn't know a pistol rule book from a Coronet magazine and they went about the business of having a couple of the cutest little boys in California. David, now three years old, and Jeffrey, a long yearlin', are a pair of lads who require enough attention to kill the pistol-shooting ambitions of almost any woman. Gloria gave it up completely for a while. As any shooter knows, however, when you've watched those wadcutters going through the center and enjoyed the fine comradeship associated with the game for as many years as she has it's a hard matter to put it behind you forever. She found herself dry-firing in the kitchen and carefully scanning programs and bulletins and finally decided she could shoot in a few big matches each year and still maintain an orderly household.

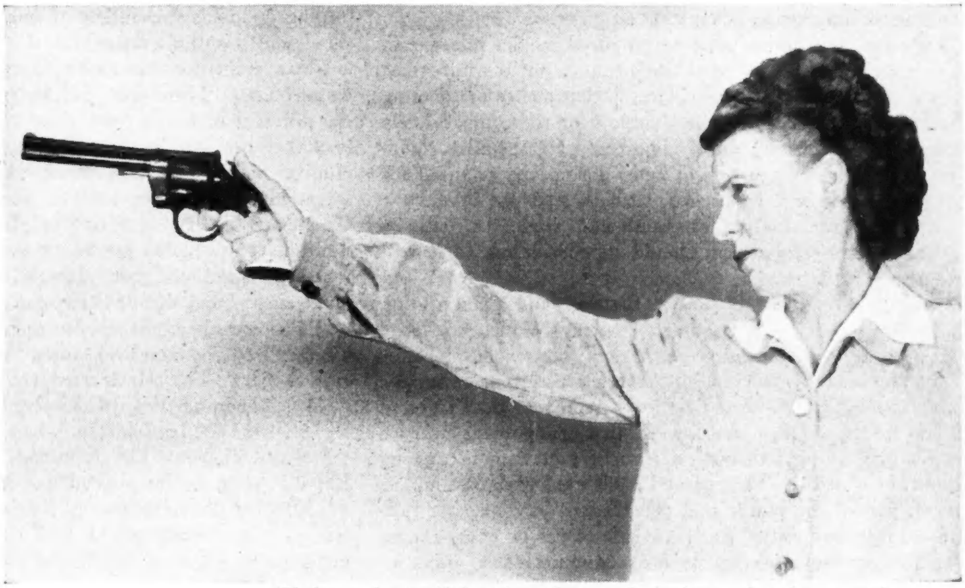
"I practice dry-firing far more than actual shooting," she told me. "I can do that around the house and still wipe Jeffry's nose when it needs it."

When practice-firing she usually shoots the National Match Course with all three guns and then puts them away.

She only commenced shooting the .45 in the spring of 1948 and, although she now holds most of the .45 records, she admits that it has her goat. She's determined to lick it, though.

"I don't know what I do wrong with it," she confides. "Probably be a lot easier to pick out the few things I do right."

This, however, isn't true. She holds it as steady as either of her other guns and her squeeze is as true as a radar beam. Her fault has lain in the fact that she has been shooting it without an accuracy job and as any good shooter can tell you, that's like running into the wind with a funnel in your mouth. As a result, her twenty-five yard scores have been good because the variance in the seating of the barrel isn't great enough to make too much difference at that distance. Her fifty-yard scores are where it has shown up. At this writing, the .45-caliber slow-fire record is one of the only three women's records she doesn't hold. "Buck" Buchanan, the famous Los Angeles gunsmith, has been doing something about that and with a tight .45, equipped with good sights, she'll soon be stacking up long-range scores comparable with her others.


'Gloria . . . shoots with her trigger finger as far in the guard as she can get it, and her right thumb sticks out on the side like a hatrack in a Greek restaurant'

Gloria uses a relaxed, orthodox stance, but her grip on the gun is as out of place as a zoot suiter at the Governor's ball. She shoots with her trigger finger as far in the guard as she can get it and her right thumb sticks out on the side like a hat rack in a Greek restaurant.

"I don't know why I shoot like that," she grins. "Got started at it before my hand was big enough to go completely around the grip and never changed."

Norman Adair, famous civilian shooter from Yuma, Arizona, also uses this grip. I'm not sure whether he saw Gloria's marked success and copied it or just experimented around and started it on his own. I chided him about it once when visiting him in Yuma and he coaxed me into trying it. I shot a 297 over the Police Course with my thumb sticking out and it scared me so bad I never tried it again.

About Gloria's guns, she shoots a light-barreled Colt Officer's Model which has the distinction of being the first gun ever to have the now famous King ramp sight. It is equipped with King wide hammer and short action and has a 3-pound pull. Until lately she has shot a four-inch barrel Colt Woodsman with King ramp sights but when Colt came out with their new Match Target Woodsman last year she acquired one of them. She has found that it is a little too heavy for her . . . she only weighs 110 pounds . . . and has had Buchanan cut three-quarters of an inch off the barrel. This gives her better accuracy at fifty yards and still doesn't detract from her fine scores at twenty-five yards.

Although taking her shooting very seriously, Gloria isn't serious about it. This tempers her determination with a sense of humor which stands her in good stead when a record is in the offing and the jostling crowds begin to form behind her. I watched her at Calexico, California, at the Desert Cavalcade Internationals last March when she had a bad string of rapid fire with her .45. She had only been shooting the big gun a few weeks at that time and it still had her somewhat baffled. As she walked off the line I asked her how it went. She put down her gun box and grinned.

"I think I've got to make a definite decision," she said. "I've got to decide whether I'm going to shoot four good ones and lose one as the target turns or just go ahead and shoot five bad ones quick."

Speaking of the Desert Cavalcade Internationals at Calexico, Gloria so endeared herself there in the hearts of the shooters and townspeople that, unbeknown to her, they raised a goodly sum of money and had a beautiful pair of cowboy boots made to her measurement . . . complete with crossed pistols, her name and all sorts of fancy doodads on them. This kind of treatment frankly amazes her. She asks no special dispensation because of her sex and the hundreds of shooters who have fired with her over the years realize this and respect her for it . . .

She was sighting in her guns for the big 1948 Regionals at San Francisco. She had driven in from Woodland and was tired and shaky. She jerked three eights with her .45 which touched one another at seven o'clock. Don Millican, great California Highway Patrol shooter, was spotting her target.

"That's our Gloria," he said. "She's the only pistol shooter alive who can jerk 'em thru the same hole!"

Yep, the folks up at Woodland are just about right. Little Gloria Norton is some punkins on a pistol range. ◆ ◆ ◆

MAKING YOUR OWN BULLETS

BY AL BARR

A DOPE BAG 'REVIEW'

BULLETS are but one of four necessary components of a modern cartridge. Yet bullets alone can make or break any attempt at successful handloading. They have a double duty to perform and, to meet those exacting requirements, must be made with the utmost care—whether they are inexpensive cast lead-alloy bullets intended for economical reduced loads or the more expensive copper-alloy jacketed type. They must be accurate, yet the game bullet at least must give good penetration and expand adequately on game.

Even jacketed bullets may be produced by the reloader at quite a saving, especially when one's time is not too important a factor. One provision, of course, is that plenty of shooting must be considered to offset the outlay for the comparatively expensive bulletmaking dies. The cost of cast-bullet equipment is far less, though several items not usually required for jacketed bullets will be needed, such as lead pot or electric melting furnace and bullet mold and sizer. Usually a lubricator-sizer combination should be considered, as it will prove to be a timesaver.

Casting bullets can become a tiresome and uninteresting routine unless it is considered as a challenge. That challenge is to produce bullets at low cost that will be as good or better than those made commercially. Another potential advantage is that cast bullets will cause far less barrel wear than jacketed bullets driven at high velocity, so that many more practice rounds may be fired through a favorite gun without causing undue barrel wear. The reduced loads used with cast bullets do not possess the power and penetration developed by full-power loads, and consequently are safe to use on many ranges which might prove inadequate for maximum loads. Another valid reason for making one's own cast bullets is that they are otherwise obtainable only through custom bulletmakers.

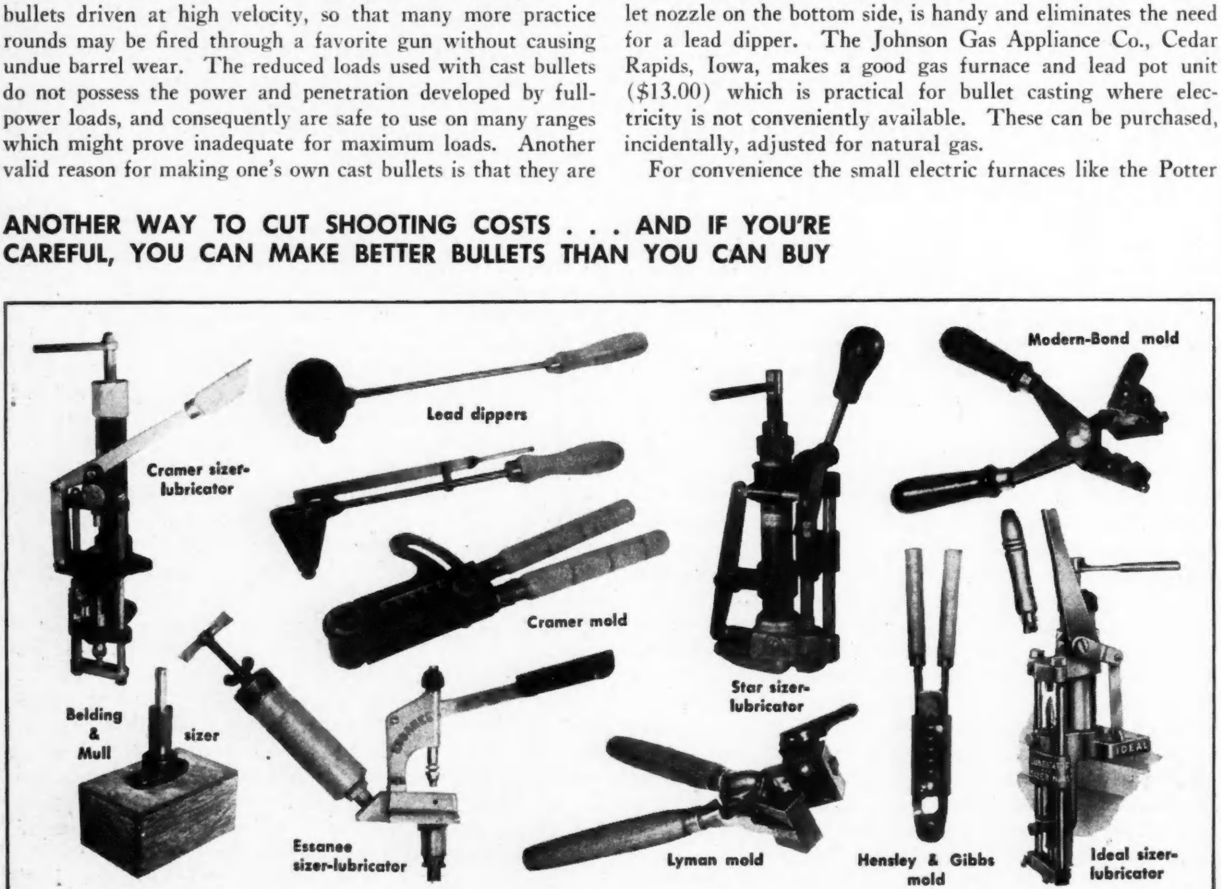
Essential cast-bullet equipment includes an Ideal, Modern-Bond, Hensley & Gibbs or Cramer bullet mold. From these sources one can obtain molds for dozens of different styles of bullets in nearly any generally-used caliber. Prices will vary from $6 for a single-cavity mold of standard design to as much as $50 for a big ten-cavity gang mold for quantity work. Most of these mold makers even cooperate to the extent of producing molds for bullets of one's own design—providing the design is within reason.

For average home use a single- or double-cavity mold will be adequate. There is no particular basis for choice between the different makes as quality is built into all of them. The way they are used is the most important requirement. For club or police use where thousands of bullets are cast, the larger Hensley & Gibbs (2692 E Street, San Diego, Cal.) and Cramer molds, having 4, 6, 8 or 10 cavities are used. These multiple-cavity molds are heavy and for average use are not worth the additional cost. Hensley & Gibbs and Cramer also make single- and double-cavity molds.

To be considered along with the molds will be the Ideal or Cramer lead pots and lead ladles. Cramer also makes a pressure dipper. The Merit lead pot (Merit Gun Sight Co., 6144 Monodnock Way, Oakland, Cal.), which has an outlet nozzle on the bottom side, is handy and eliminates the need for a lead dipper. The Johnson Gas Appliance Co., Cedar Rapids, Iowa, makes a good gas furnace and lead pot unit ($13.00) which is practical for bullet casting where electricity is not conveniently available. These can be purchased, incidentally, adjusted for natural gas.

For convenience the small electric furnaces like the Potter

ANOTHER WAY TO CUT SHOOTING COSTS . . . AND IF YOU'RE CAREFUL, YOU CAN MAKE BETTER BULLETS THAN YOU CAN BUY



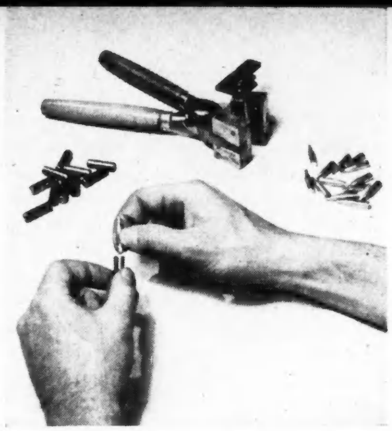
Model C (Potter Engineering Co., 10 Albany St., Cazenovia, N. Y., $16.00), which holds about 3½ pounds of alloy, or the Model D ($20.50), holding the same amount, are excellent. The Model D, drawing 750 watts, has a double heating unit for use with gang molds. There is also a Model E ($18.50) of the same large capacity, but with a plug-in arrangement to utilize either 350 watts for single- or double-cavity molds or 400 watts, which is best for 3 or 4 cavities. The Saeco, a new and larger electric furnance holding about 11 pounds of lead, with a heat range up to 1000 degrees F., and a thermostat calibrated dial control, will be announced soon by the Santa Anita Engineering Co. (2435 E. Colorado St., Pasadena, Calif.; about $25.00). This size, of 1000-watt capacity, should be adequate for even the largest molds.

All cast-alloy bullets must be lubricated and in most cases resized to uniform diameter. Lead bullets as they come from the mold are frequently out of round and molds are deliberately made to cast them oversize so that they may be reduced in diameter to adjust for variations in bore dimensions. An economical way is to use the 'cake-cutter' method of lubrication (RIFLEMAN, January, page 14). After lubricating bullets in this manner, the Model 26 Belding & Mull bullet sizer (Belding & Mull, Inc., Philipsburg, Pa.; $4.50) may be used. It does a good but rather slow job.

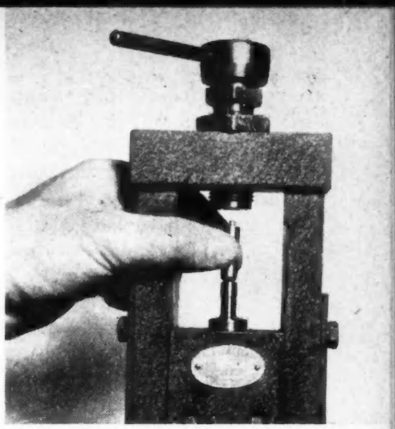
For the utmost in convenience a combination sizer-lubricator is most desirable. The improved Ideal No. 45 (Lyman Gun Sight Corp., Middlefield, Conn.; $12.50) is the least expensive and is satisfactory when the bullet diameter is to be reduced several thousandths. For heavy-duty work the relatively new Cramer (Cramer Bullet Mould Co., 11625 Van Owen Street, North Hollywood, California; $20.00) is well worth considering, especially when gas checks are to be fitted to the bullet bases. A special gas-check seater is built into the tool. The Meepos Speedlube sizer (Meepos Machine Shop, 135 N. Western Ave., Los Angeles, Cal.; price not available) looks good though we have not used it in our own loading. It should be very fast to operate. One owner told us that it will not size bullets with gas checks fitted to them. Another sizer-lubricator, made by the Strine Arms Co. (111 W. Walnut St., Cardington, Ohio; price not available), appears to be good, but, again, we have not tried one in our own reloading.

One of the fastest and most dependable of these tools is the Star sizer and lubricator (Star Machine Works, 418 10th Ave., San Diego, Calif.; $28.00). A pressure piston is incorporated to force almost any kind of lubricant into the grooves around the bullet. This is a production tool recommended where large quantities of lead bullets are to be lubricated and sized.

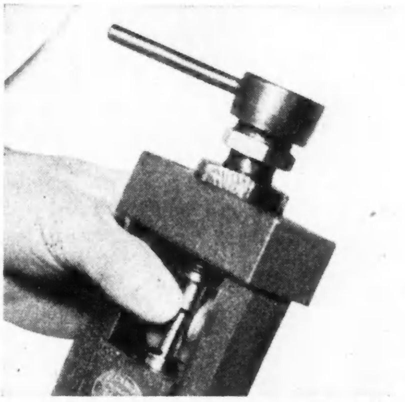
So much for bullet-casting equipment. How



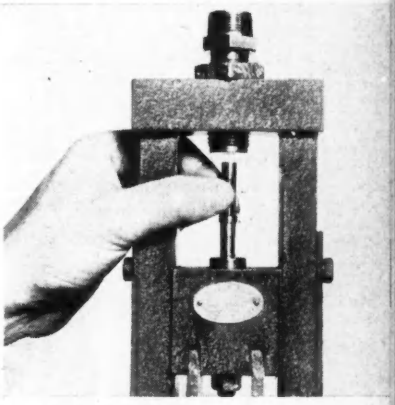
1 Using the new Gibbs dies, soft lead cores are cast, then placed in jackets before swaging



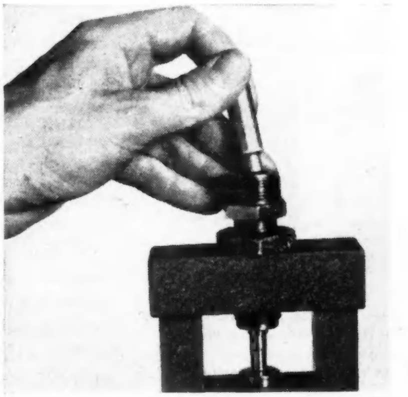
2 Combination is then inserted in swage mounted in an Easton tool



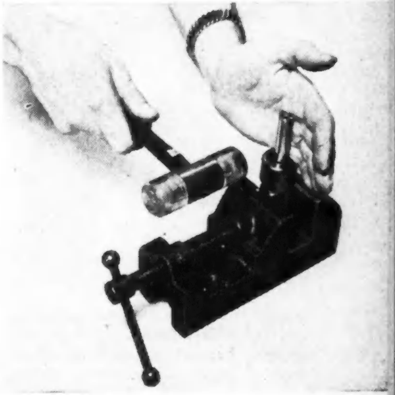
3 Raising handle of tool pushes core and jacket up into forming die in which bullet is shaped



4 Cap is then removed and bullet is pushed out by base-fitting plunger

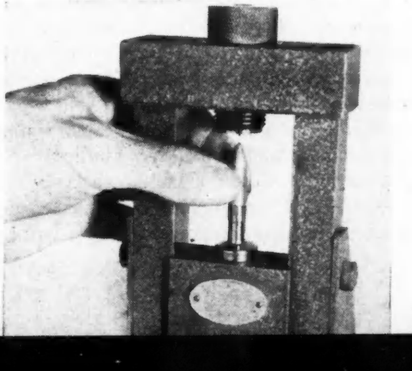


5 As plunger moves up, bullet and nose-forming section of the die are forced out together

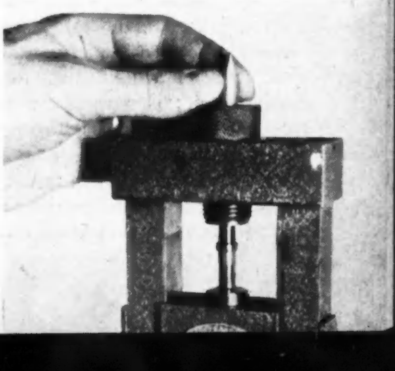


6 To remove the finished bullet, its base is clamped in special collet

7 Bullet is now forced through sizing die to remove ridge formed by pressure in 2-piece die



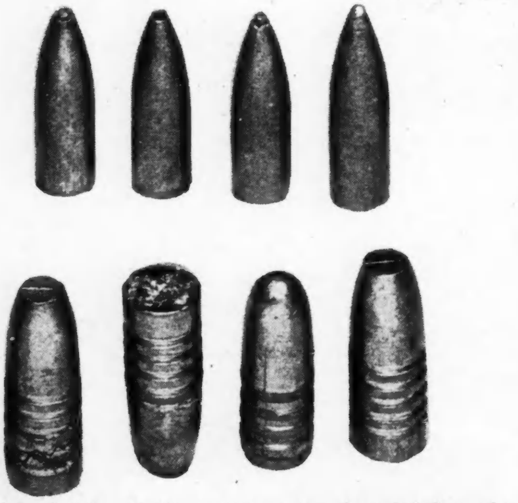
8 Finished 150-grain, .30 caliber bullet emerges from top of die



to use these tools is fully as important as the selection of them. First, the alloy of one part tin and 16 to 20 parts of lead should be mixed for handgun bullets. This is a good mixture also for the lighter rifle loads. For higher velocity loads a harder alloy of one part tin to 10 parts of lead may be best. For years we have had good luck using a mixture of 96 parts lead, 2 parts tin and 2 parts antimony. Another popular mixture of lead, tin and antimony is 90, 5 and 5. In this connection, Potter makes a practical lead tester ($18.50) to determine the hardness of the bullet mixture.

The actual casting temperature depends upon the alloy used. The tin and lead mixture melts at rather low temperatures (about 580 degrees F. for a 1 to 20 mixture). When antimony is used the pouring temperature for best results with a 96-2-2 mixture should be around 750 degrees F. The temperature of both the molten lead and the mold is important. When either one is too cold the bullets will be undersize and wrinkled and the bases and bands between the lubricating grooves will be rounded and imperfect. Such bullets will not perform well.

When the alloy and mold are too hot the bullets will appear quite frosted. They will be oversize and brittle. Also, the sprue cutter will tear a hole in the base of the bullet—and don't forget, any base deformation will show up prominently in accuracy or lack thereof. In fact, slightly deformed bullet points are not as detrimental to good results as irregular bases.



Second and fourth jacketed bullets (upper) are correctly-made hollow-point and soft-point. Others show incorrect die adjustment. Bases should be square, but not too sharp on edges. Cast bullets (lower) show wrinkles, rounded edges due to faulty casting. Bullet on right is correctly formed

When a mold becomes too hot it may be cooled by plunging for an instant into hot water. Do this only when there is a bullet in each cavity of the mold.

To sum up, the important things to remember in bullet casting (some of which are taken from the excellent folder furnished by Hensley & Gibbs along with their molds) are: 1) remove all traces of oil before using a mold; 2) place mold alongside lead pot or on top of it to warm it up gradually; 3) close mold gently to avoid damage to the dowel pins; 4) never get a mold too hot; 5) never use wax, tallow or anything as a protection against rust that cannot be readily cleaned from the mold; 6) do not tighten cut-off plate so that it binds; 7) never use a wire brush on mold faces; 8) keep outlet nozzle of ladle and electric furnace clear for the alloy to flow freely; 9) use a flux, such as sal ammoniac, generously in the alloy to prevent surface dross; 10) do not allow the alloy to get so hot that the tin and antimony will burn out; and 11) discard all bullets that have rounded edges or jagged tears in the bases.

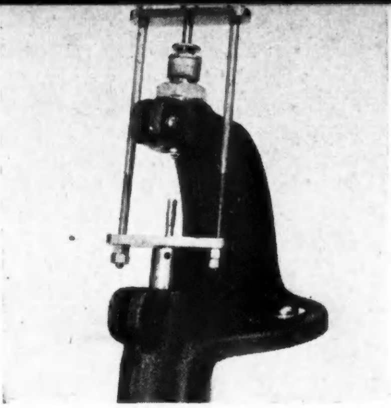
The production of jacketed bullets by individuals using custom-made forming dies and swages dates back many years, but such dies were not developed in earnest until the last war, when commercial jacketed bullets for reloading were unobtainable from any source. Even in more recent years the scarcity of bullets made by the large commercial companies has been an incentive for further development in equipment for making jacketed bullets. Another reason—the chief factor for many handloaders—is the accuracy obtained with them and also the economy once the dies pay for themselves. Not including the reloading tool, which is necessary anyway, the swages will be just about paid for when some 2000 bullets have been made, based on existing custom bullet prices.

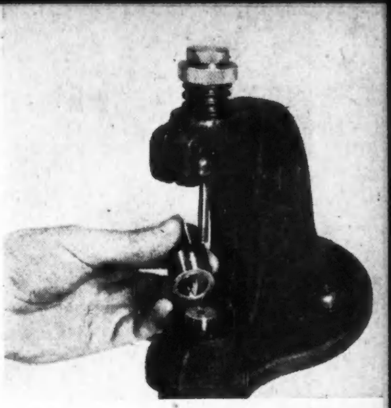
Custom bulletmakers are doing the best they can under existing conditions and their bullets are good, but now it seems that much of the good accuracy obtained recently has been done with homemade bullets, where the individual has a chance to turn out an even more accurate product than he can buy. After making and shooting thousands of these homemade bullets in several different calibers we know some of the reasons for this better performance of the home-brew variety. The reloader does not have the great problem of continually making new forming dies which will produce just as good bullets as previous sets which have been worn out. He can control exact bullet weight, copper-alloy jacket length, and the amount of forming pressure which will produce the most accurate bullets for his own rifles. This forming pressure is very important and everyone making bullets should do some experimenting with his own dies.

The equipment required for making jacketed bullets includes a heavy-duty press or one of two strongly-built reloading tools. The RCBS dies (Fred Huntington, 1365 7th Ave., Oroville, Cal.) for .22- and .25-caliber bullets fit the Pacific Super reloading-tool frame. The Gibbs dies, from Earl Gibbs, 1620 Sheridan Blvd., Denver, Colorado, which we have used to make both .30-caliber and 8-mm. bullets can be used in the Easton Big Giant tool (Easton Engineering Co., 225 S. State Street, Salt Lake City, Utah). A lead-wire cutter like the RCBS or Banta to cut the 3/16- or .20-inch core slugs will also be needed. A mold is used to pre-cast soft lead cores for use in the Gibbs dies.

When making .22-caliber bullets there are two ways to obtain jacket material. One is to use deheaded .22 rim-fire cases. During the war years when bullet jacket material was still unobtainable, Fred T. Huntington, who makes the RCBS (Rock Chuck Bullet Swage) dies, and the late Captain Grosvenor L. Wotkyns perfected a 'deheading' tool to remove the folded rims from fired .22 rim-fire cartridge cases so that they could be used as copper-alloy bullet jackets. This worked very well and many of them are still being used. Unaccountable fliers show up frequently, however. Sometimes the firing pin indent, which is not altogether removed from the base, has been blamed. Usually best results are obtained by using new unheaded .22 rim-fire cases, which can be obtained from the die makers.

A routine procedure for making .30-caliber bullets in the Gibbs 2-piece forming dies is first to cast the slugs, using the same equipment and procedure as when making lead-alloy bullets. Next the lead cores are inserted in the copper-alloy jackets. These jackets are made commercially and supplied by the die manufacturers for about $12 a thousand. Copper-alloy jackets can also be obtained from Ernest L. Gardner, 422





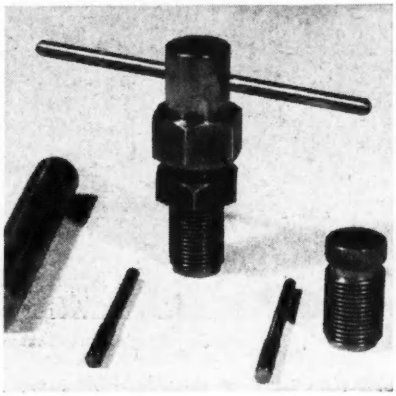
Above: Banta supplies dies for use in Pacific tool for deheading fired .22 cases for jacket material. Huntington supplies an RCBS tool for same job

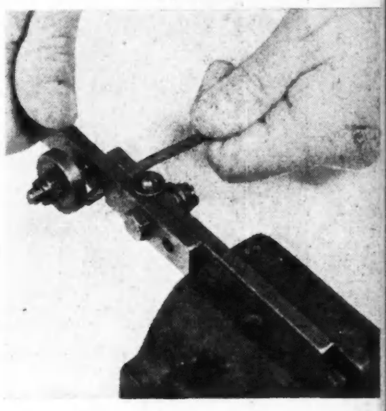
Top center: RCBS swage in use. A core and jacket have been slipped over punch for swaging together. Slugs are cut to length from lead wire

Top right: Banta dies set up in a Pacific tool. Bullet has been formed and is ready to be pushed out of the base-forming section of the swage

Right: The RCBS outfit. Part at left is the ram which replaces case holder in the Pacific tool. Large element with T-handle is bullet forming die

Commercial soft lead wire is cut to correct length and weight with this RCBS wire cutter. Properly used, surprisingly uniform results are possible





South 6th Street, Rockford, Illinois, and Harris Machine Company, 312 East Bermudez, Rivera, California. The next step is to swage the lead and jacket together into a finished soft-point bullet. With the Gibbs dies a threaded cap on top of the die holds the inner point-forming section of the die in place. After the two parts of the bullet are swaged together the cap is removed, and a basefitting push rod forces the nose die and entire bullet out of the main part of the swage.

The bullet is then freed from the point-forming die by clamping the exposed base end in a collet made especially for the purpose and then tapping the side of the die to loosen the bullet. The job is now complete, except for final resizing to give the bullet its correct diameter and to reduce the noticeable bulge in the jacket where the base and point swages came together.

These Gibbs dies make very good bullets. The one operation which seems most critical is the method of removing bullets from the nose-forming punch. Unless carefully done the point of the bullet could be bent or distorted.

Essentially the RCBS outfit is a two-piece swage. The top half forms the point of the bullet, and the lower half, which threads into the Pacific tool (Pacific Gun Sight Co., 353 Hayes St., San Francisco, Cal.), forms the base end. The nose cap is removable, being locked by an interrupted thread to the lower part. The base-forming punch and ram fit in place of the Pacific tool's shell holder. To release a formed bullet, the nose cap is removed and the bullet forced out the top of the lower half of the die. One trick is to remove the top half without bending the soft point of the bullet. The nose punch should be loosened very carefully and the T-handle should never be tapped to break it loose. The die head should be grasped firmly right over its center to free it and then lifted straight off the bullet.

The interrupted thread, which locks the two parts of the die together, insures a close joint between the parts so that sizing of the bullets afterwards is not always necessary.

Newer bulletmaking dies are the Banta (Modern Gun Shop Bullet Co., Box 39, Hollydale, Cal.). Like the RCBS dies, they are made for use in the Pacific Super tool. The complete set includes a deheader for fired rim-fire cases, the swage and a final sizing die. In use, the Banta dies require roughly the same procedure as the RCBS for making bullets. Core swages are employed with both. With these swages the lead slugs, after being cut to length and correct weight, are squeezed down inside the alloy jacket cup to eliminate all air pockets before the bullets are formed in the second operation. Core seating is not absolutely necessary, especially with the Banta dies, but there is good reason to believe that some occasional wide shots can be eliminated by so doing, and that more uniform bullets can be made.

The Banta setup in the Pacific tool places the point-forming die in the ram and the base punch is threaded into the tool frame—exactly the reverse of the RCBS and Gibbs swages. The main body part of the Banta set differs too from the RCBS in that it is a snug sliding fit only over the upper end of the nose die. Raising the Pacific lever swages the bullet and return downward movement separates the 2-piece swage, leaving the bullet point protruding from the base section. The bullet is then forced out into a specially-made cup resting on top of the nose punch. The final operation involves use of the sizing die to remove the small band on the bullet where the two pieces of the forming die came together.

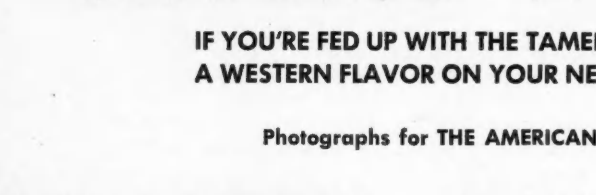
The Banta and Gibbs dies have a small vent at the point of the bullet swage, to release trapped air as the lead and copper alloy are compressed. Too, the vent permits excess lead to be squeezed out so that swaged bullets should all be quite uniform in weight and length as well. Instructions with the RCBS die suggest 'venting' once during the forming operation, as there is no opening at the point. This is accomplished by carefully loosening the T-handle, *(Continued on page 38)*

Treed by Goswick's hounds, a mountain lion snarls at his pursuers. Bringing one of these big cats to bay without trained lion dogs is all but impossible

BAGGING THE BIG CATS

IF YOU'RE FED UP WITH THE TAMER BRANDS OF HUNTING AND WANT A WESTERN FLAVOR ON YOUR NEXT TRIP, TRY GUNNING FOR A LION

Photographs for THE AMERICAN RIFLEMAN by Charles C. Niehuis



Giles Goswick, famed lion hunter, once bet that he could bag a lion reported near Prescott and have it back in town on the same day. Before sundown he was on the courthouse steps with the dead lion across his saddle

FOR THE FEW who have tried it, lion hunting in the American southwest has provided some of the top thrills of a rifleman's career. Strenuous, specialized and exacting, it's no game for a lone hunter. Trained mounts and a pack of lion-wise dogs, plus the services of a man who knows the habits and haunts of the big cats from long experience, are necessary elements of any successful lion hunt.

Typical of the men who have made a business of bagging these wily animals is Giles Goswick, who operates out of Mayer, Arizona. The veteran predator-control agent, now retired, has accounted for many hundreds of these killers, and rarely fails to bring back a lion carcass slung across the saddle of his mount. Most of the pictures on this and the following pages were taken on hunts with Goswick and his famed hounds.

Goswick's 'retirement' from his favorite occupation means only that he has quit as a full-time predator-control man. He is still Johnny-on-the-spot whenever a stock killer is reported, and has recently guided several parties of Easterners on successful lion hunts. His skill at locating and bagging the big cats is uncanny; he can almost produce a lion whenever he wants one. Typical was the bet he accepted a few years ago from the sheriff of Yavapai County: that he could find a stock killer that had been reported near Prescott and have it back in town on the same day. Goswick lost no time. He bagged the lion and was headed up the courthouse steps and into the sheriff's office (left) when the law-enforcement officer hurried out, stopped Goswick, and paid off the bet.

BAGGING THE BIG CATS IS MOST STRENUOUS U. S. SPORT

IF YOU'RE FED UP with the yoicks and tallyho type of hunting and want the kind that's for whiskered he-men . . . if you like a western flavor to your gunning . . . try going for mountain lions. Mister, there's a sport that takes the best in hounds, horses, rifles—and men!

These big North American cats are among the cleverest animals in the forest. Few are the hunters—even those who have spent their entire lives pursuing game—who have successfully stalked a cougar unaided. It's an unusual event just to see a panther in the wild. They are extremely sly, and in ability to take advantage of cover and use stealth they are probably without peer.

The big cats have only one vulnerability—they leave a thread of scent behind. A successful lion hunter takes advantage of this. He uses hounds, a pack of them, to follow that thread. It takes smart, trained dogs to unravel this tangled, invisible trail and good lion hounds are about as highly educated, in their way, as dogs can be.

Horses with lots of horse sense are a must, too, for lion-getting. There are a few men who can follow a running pack of lion hounds on foot, but the type of terrain cats like is too rough to allow a biped much speedy footwork. A good lion-hunting horse is more than a mount; he makes the difference between a successful lion hunt and a lot of exercise.

A good cat-hunting horse should be bred and raised in rocky, mountainous country. He has to be accustomed to crashing through brush, ascending and descending rocky, precipitous slopes, and he must have speed, strength and endurance. And one thing more, he should be sure-footed. Underline that!

As to weapons—a look at the rifle belonging to Giles Goswick, one of Arizona's best lion hunters, shows you a .30-30 saddle gun. It is easy to pack while riding, and easy to carry if you're not on horseback. It has sufficient range in mountainous country heavily covered with brush and timber. It's got all the wallop you need for the biggest member of the North American cat family.

Frank Colcord of Tonto Rim country likes the short gun too. Frank has taken almost as many dudes out lion hunting as he's caught lions. As a professional lion and bear hunter and guide he's had the opportunity to see and use almost every make and caliber of rifle manufactured. But he still sticks to the short-barreled saddle rifle.

Floyd Pyle, Frank's neighbor in Tonto Basin, goes for the same.

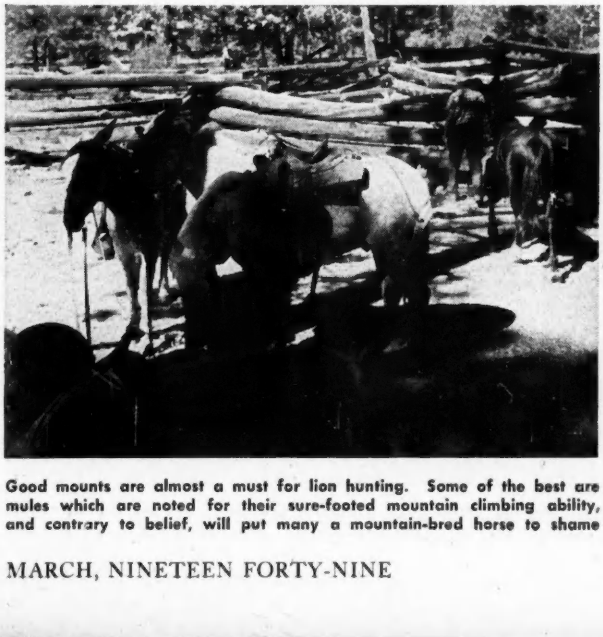
Jess Burk, who runs lion and bear hounds all over the Campbell Blue country in the White Mountains of Arizona, likes the shorter rifle.

If you look closely at the rifles of these mountain-lion hunters you'll see signs that will tell you a lot of things about the sport. The stock will show signs of hard wear. The butt, exposed in a gun boot or scabbard, will be scratched by limbs and brush as the horse snakes through thick mountain growth. Giles Goswick's rifle, for one, will show scars of a mountain lion's teeth! They were put there when a lion jumped out of a tree into the midst of the hounds and started a pin-wheel fight—hounds, cat and hunter going 'round and 'round. Goswick couldn't shoot the lion at such close range for fear of injuring one of his hounds. At the same time, he couldn't let the lion kill his dogs either. So he gave the big feline his .30-30 to chew on until the cat could be worked around and the dogs cleared away long enough for a killing shot by a companion hunter.

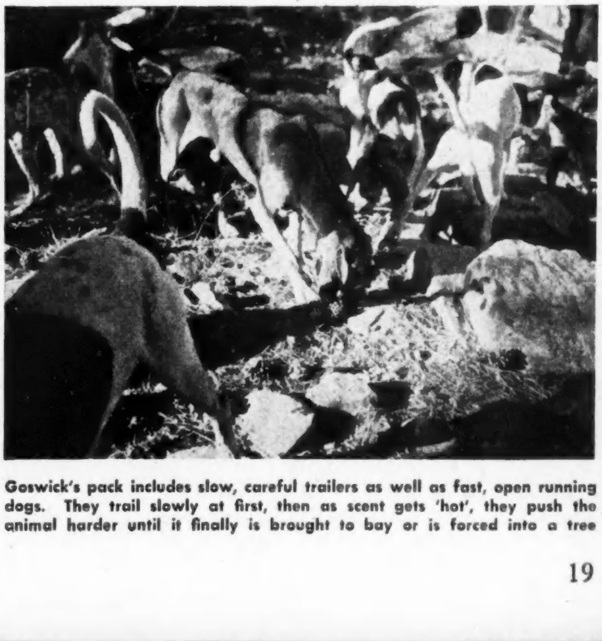
If you've never been lion hunting and want to get an idea of what it's like, imagine assisting in loading ten or more hounds into the lower compartment in the back of a double-decked pickup truck. Saddles, camping gear, food for dogs and horse, and you go on top. A horse trailer is hitched on, and your mount's loaded. The hunter takes you to the ranch or into the country in which the lion is reported. You make camp. In the morning you go hunting!

If your lion hunter is working from a good tip (fresh lion kill, or visible tracks and detailed information as to where to go to strike the lion's trail) he finds the sign, and the race starts from there. Otherwise you ride through the country where the lion is known to be ranging, working the ridges with your hounds scattered out and coursing ahead, on the chance that they'll pick up the trail. Good lion hounds will only 'open' and 'trail' on mountain-lion tracks. They'll bypass everything else.

So when one of the hounds bays, *(Continued on page 34)*



Good mounts are almost a must for lion hunting. Some of the best are mules which are noted for their sure-footed mountain climbing ability, and contrary to belief, will put many a mountain-bred horse to shame

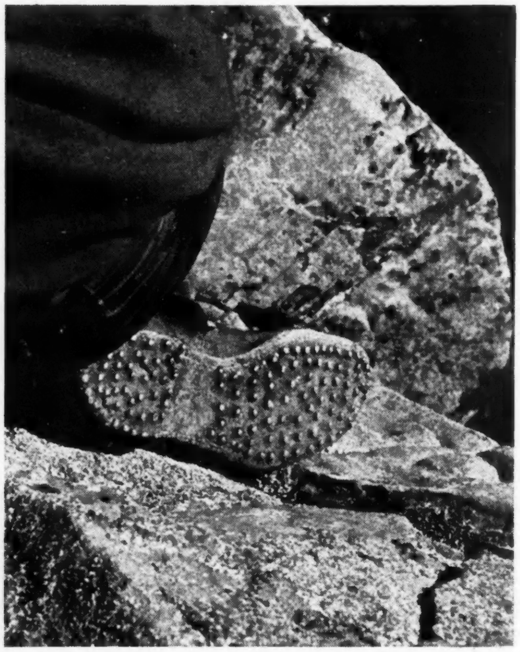


Goswick's pack includes slow, careful trailers as well as fast, open running dogs. They trail slowly at first, then as scent gets 'hot', they push the animal harder until it finally is brought to bay or is forced into a tree

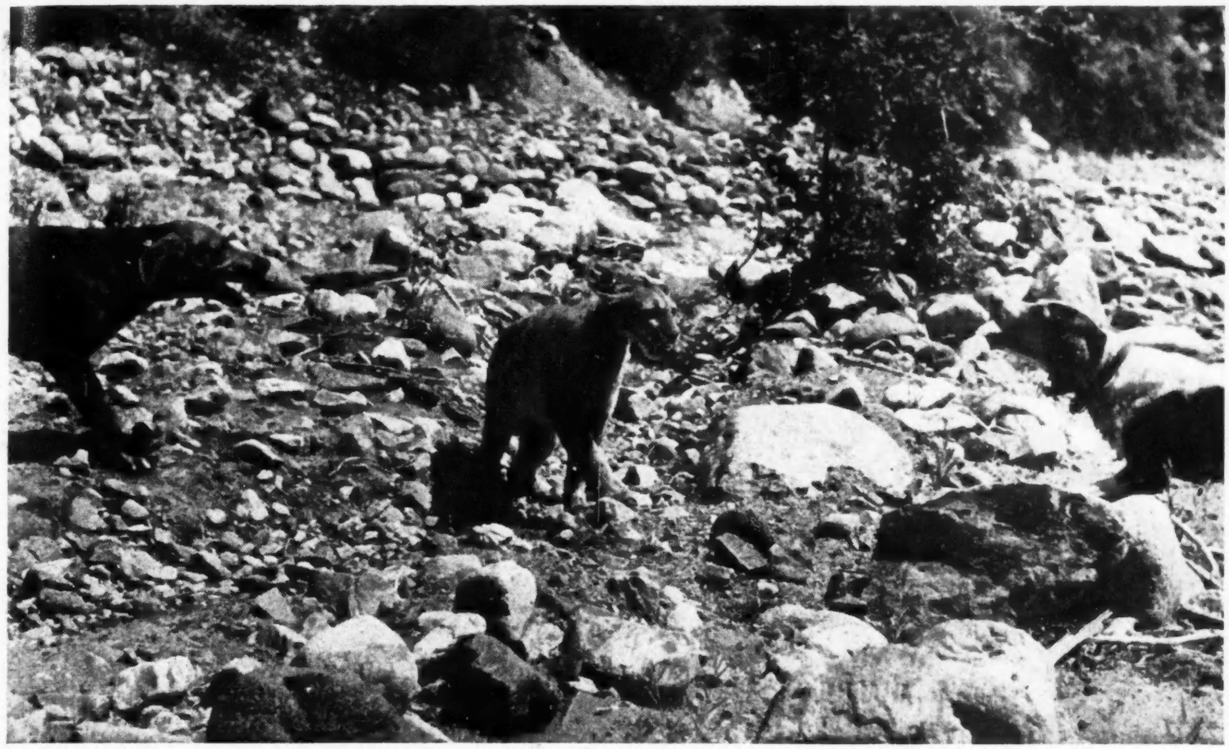
Two hunters watch intently as dogs trail on opposite side of canyon. Experienced hunters can tell from sound and tempo of baying how far the chase has progressed

This young mountain lion has taken refuge in the branches of a low tree. Even a partly-grown lion can give dogs plenty of trouble

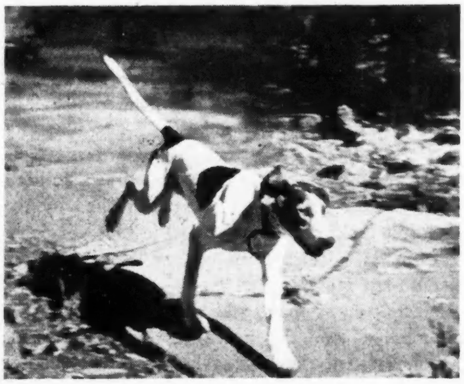
Fossil Creek Canyon is typical Arizona lion country. The Savage model 99 rifle (left) is favorite saddle gun of western hunters



Hobnailed shoes, which bite into almost any surface, are considered best footwear for lion hunting in Arizona's rocky country



Two of Goswick's hounds have caught up with this yearling lion, and it turns at bay in a rocky canyon bottom. This is a dangerous situation for the dogs. Lion may cut them up before hunters arrive



Within seconds pack has surrounded the lion. This dog, one of Goswick's best, trails in wide circles ahead of pack

Dogs are trained to hold lion at bay until hunters arrive. Killing shot must be perfectly placed, to protect pack

WINNING SKEET SCORES

By T. E. INGRAM

IT'S REACHED THE POINT WHERE YOU HAVE TO BREAK 'EM ALL TO WIN A SKEET TOURNAMENT . . . BUT HOW?

At one of the Alamo Open skeet championships down Texas way, a shooter was heard to remark, "It's getting to be a hell of a note when a guy busts 247 out of 250 and all he gets is thanks for attending the shoot." He was absolutely right, for San Antonian Charley Poulton (pictured above) didn't miss a target in four days of shooting, breaking 250 straight in the all-bore and 100 in the 20-gauge event—not to mention the shooters hot on his heels with 249's and 99's.

It's true that you have to break 'em all to win, but how do they do it—these hot-shots who apparently can't miss? How do they maintain that perfect coordination of mind, eye and body that permits them to hit consistently the flying discs that travel at close to fifty miles per hour?

First, let's consider the experts' armament. Art Beam, '47 National Champion of Champions, and Alex Kerr, '47 National High-over-all winner, both swear by the Remington over-and-under as do many of the current champs. But Dick Shaughnessy, who has been the most consistent winner in the history of the sport, swears by the Remington autoloader, as does '47 National all-bore winner, Dr. Westermeir, along with a long list of other experts. Then there's the good old 'cornshucker', the pump or slide action. To mention a few of the legion who are pump addicts, this year's National all-bore champ Sgt. Glenn VanBuren, and runner-up Fred Missildine, battled it out in a shoot-off using Winchester model 12 pumps. Remington professional Lee Braun, one of the greatest scatter-gunners of all times, uses a model 31 Remington pump that has fired over 300,000 rounds.

The only shotgun action not used extensively by the top-notchers is the side-by-side double, but the few who do can really handle it. Billy Perdue, one of the fastest experts in the game, smashed 325 straight in a shoot-off at the 1947 National skeet events, using a Winchester model 21 double.

Just about eighty-five percent of the pump and auto fans use the Cutts Compensator with spreader tube. The majority of experts also prefer a rib sight, usually of the ventilated type. When no muzzle attachments are used, barrels almost without exception are used with the skeet boring as furnished by the manufacturer. Reason for the popularity of the Cutts is probably the reliability of its patterns plus the fact that it was the first choke device on the market.

You'll see just about every make and model shotgun in the hands of the topnotchers, and they all have their pet reasons for using them. So, granted that the saying "It's the shooter and not the shootin' iron" holds true in skeet, let's analyze some of the experts and see what we come up with.

What about stance? With few exceptions, the experts agree that it should be relaxed and normal, avoiding the extreme and very often cramped positions seen on any skeet field. Billy Perdue and Dick Hecker are the two foremost exponents of the perfectly erect stance with both heels practically touching. Most experts flex each knee slightly, leaning into the shot a trifle, claiming, with 1947 National Women's champ Marie Ellis, that it aids in gun control and absorbing recoil. On the other hand, exceptions include Shaughnessy, who shoots from a pronounced crouch with feet widespread, and the one and only Henry Adler, high-average shooter from Texas, who crouches so low he practically sits on the ground.

Aside from the variations in lean and crouch, placing the feet apart with the weight evenly distributed, and at an angle of about forty-five degrees to a line drawn from the shooting station through station eight, is the position almost universally adopted by good shooters.

Much has been written and said of binocular sighting (shooting with both eyes open) and most of the skeet experts go along with the theory. Some of them, including Kerr and Braun, half close one eye, keeping the master eye wide-open; some of them entirely close one eye. It does not necessarily mean that you should learn to shoot in that manner, but as Art Beam says, "Shooting with both eyes open aids in depth perception, and irregularity of target flight is more easily detected."

Now we come to one of the most controversial and tossed-about questions in skeet, the matter of lead or forward allowance. In questioning many on the subject, the answer given by Alex Kerr, who has won more than his share of national and regional titles, seemed very logical. Said Alex, "The leads can be figured mathematically for each shot, but few shooters will agree on the leads for all twenty-five shots. This is caused mainly by the variation in the speed of swing on each target. The fast shooter will tell you that he leads a target less than a slow starter will say he does. But, don't kid yourself that different shooters give different leads. The target is traveling at a certain speed and the shot is moving at a certain speed, and they have to meet somewhere if the proper lead is given. So you know that there has to be a right lead for each shot. Another reason for a variation in a shooter's estimate of lead is the lack of ability to judge distance in front of a moving target twenty yeards or so away from the shooter. One person will tell you he gives a one-foot lead on a certain shot while another will say he gives it a three-foot lead. Actually, both shooters are giving the target the same lead; it's just that their ideas of distance vary. Every target has its particular lead which the shooter will best learn by continuous practice until he can automatically give the correct lead at each station."

There are three methods of obtaining lead. One is that of bringing your gun from behind the target, swinging past the target and shooting when you think you have the proper lead. The second is that of aiming at the target, then pulling out in front and firing when you think you are right. The third method, and the one used and advocated by Lee Braun, is that of never letting the target catch up with the line of sight. To do this you start the gun at the same time the target leaves the trap house, never letting the target catch up with the line of aim. Braun claims this method enables you to obtain lead quicker and fire the gun faster, being less likely to stop the gun in so doing. Judging from Braun's record, it must work!

Are certain stations harder than others? It is true that more targets are missed at station 2, low 4, low 5 and low 6. So, what do the experts do with these so-called harder ones? Braun claims that there is no easy target when you are shooting in competition. The only change he makes in shooting at different stations is that of increasing or decreasing his lead.

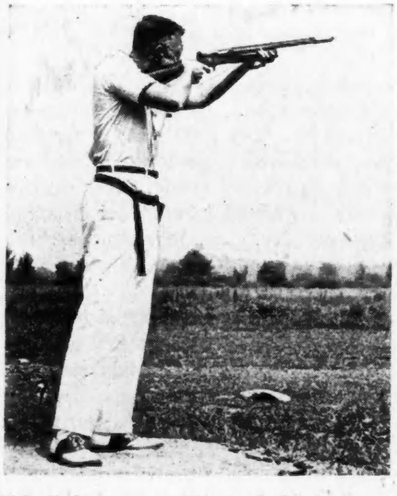
Alex Kerr claims that no particular station is harder than any other. The so-called harder station varies with the shooter, and at some time everyone seems to get a certain station which gives considerable trouble. Actually, we get into a bad habit, or we are doing something wrong, causing us to miss a certain station, and it becomes a 'jinx'. Kerr has had this happen to him at various stations, but over a period of time he has managed to find what he was doing wrong and correct it.

Art Beam considers high 3, low 4, and low 5 the toughest targets. He makes it a point to give them more lead than any other target.

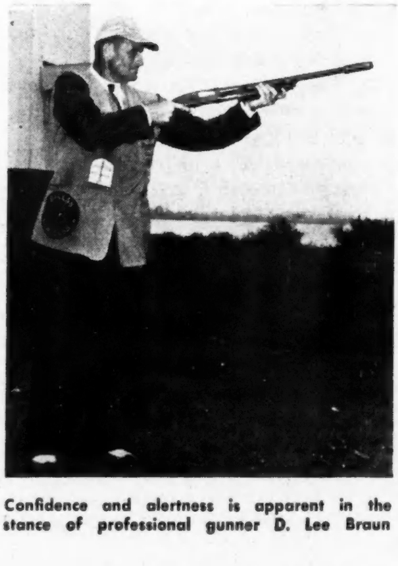
Now we come to the age-old question that invariably pops up in any sports discussion, youth versus age. Whenever a young shooter wins you'll hear the oldsters howl that 'it's a young man's game,' but the records don't hold this up. For instance, this year's National 20-gauge championship was won by 18-year-old Bennie DiIorio while last year it was taken by Charley Poulton who is past the 40-year mark. And there is well-known ex-Senator Joe George from Maryland, who at 60 is still winning tournaments, being a definite threat in any match he enters.

Three of the experts mentioned in this article can be considered representative of the age and length of experience needed to reach the top. Art Beam at 43 has been shooting skeet since 1933, Lee Braun, who is 37, started in 1936, and Alex Kerr, 34, started in 1935. You will find that the majority of experts have had at least ten years experience, and undoubtedly there is no substitute for it. But, here too we find exceptions. Sgt. Glenn VanBuren, current all-bore champ, is 28 and has been shooting skeet only a little over a year!

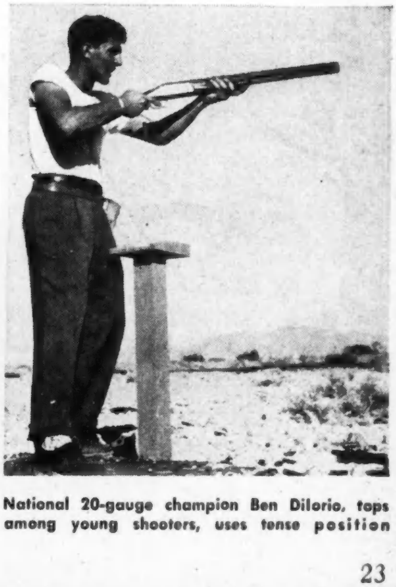
By now you are probably wondering if there isn't something that doesn't have an exception, something that the hot-shots all agree on as necessary to success—and there is! Call it mental attitude, match-shooting psychology, or what have you. It isn't just the determination to win. It is the ability to *concentrate* on what you have to do on *each* shot. This one in-



Dick Hecker, new president of the NSSA, is an exponent of the erect, relaxed stance



Confidence and alertness is apparent in the stance of professional gunner D. Lee Braun



National 20-gauge champion Ben DiIorio, tops among young shooters, uses tense position

At the age of 60, Maryland state senator Joe George is still winning skeet tournaments

All-American Alex Kerr, high man in the country with .410, leans forward in getting off a shot

Notice the concentration of expert Ray Bocci. He's ready to frighten the bird out of the air

gredient spells the difference between champions and also-rans. To obtain a high degree of concentration, a shooter must keep himself 'keyed up' throughout the entire event. He must never 'let down'. He must subconsciously remember all the things he has learned and smoothly execute them on each and every shot. The business of concentration is, of course, a requisite in any sport. Baseball requires it, but you get three tries while at bat. So does golf, but you can always recover a poor shot. In skeet, brother, you just can't miss one and stay in it with the hot-shots. Lee Braun considers the ability to concentrate fully ninety percent of the fight for a winning score, while Art Beam says it is the greatest single factor in top-flight competition.

Now you have it. The whole business of winning skeet scores can be boiled down to one word—concentration!

You can adopt the gun, stance, ammo and method of lead that suits you best. Then you have to use everything you have learned on every shot you fire.

Sounds easy, doesn't it—and, comparatively, it is for a few. But for the vast majority it means years of practice and seasoning in competition before a place in that magic winner's circle is attained. ◆ ◆ ◆

FLASH! '49 Convention Site

As we go to press, the location of the NRA's '49 convention is announced. Denver, Colorado, mile-high city at the eastern gateway to the Rocky Mountains, will be host to the Association's Second Annual shooter's get-together. Dates will be October 17-21.

The National Convention idea got off to a flying start last year in Washington, where over seven hundred members of the Association, representing 46 states, held the first meeting of this type ever attempted. The popularity of the first convention set a high mark for succeeding conventions to shoot at. Plans are being drawn at Denver, however, for a much bigger and better National Convention this year. More delegates, more reasonably priced accommodations, more exhibitors with technical 'how-to-do-it' exhibits, plus a complete and carefully planned program of things to do and see for the wives and families of all who attend.

Again, every N.R.A. club is urged to arrange for at least one delegate to represent their group. Many interesting and informative committee hearings and panel sessions will be scheduled. Everyone is encouraged to take part and to register his views on matters affecting the sport of shooting.

Make your plans *now* to take part of your vacation this year with your shooting friends at the NRA Convention in Denver.

Any type of accommodations you wish will be reserved for you in advance if you will ask for a reservation form. Write to the National Rifle Association, Convention Secretary, 1600 Rhode Island Avenue, Washington 6, D. C. ◆ ◆ ◆

SET-TRIGGER MECHANISMS

By GEORGE E. LARSSON **Illustrations by the Author**

An ever-increasing interest is developing among riflemen in the various forms of trigger mechanisms adapted to use in small-bore and varmint rifles and, more recently, for weapons adapted to the free-rifle game. Interest in the latter has received enormous impetus through American participation in the last Olympic games, and more attention will undoubtedly stem from the sending of a U. S. team to the international matches in Buenos Aires this year (Rifleman, February, page 30). Also, the great number of Schuetzen rifles of European manufacture which have reached this country via the acquisitiveness of the American soldier have probably had much to do with this growing awareness of the set trigger as a useful addition to the special-purpose rifle. While not pretending to be an exhaustive treatise on the subject, the following does cover in reasonable detail all of the generally-known forms of set trigger, both European and American.

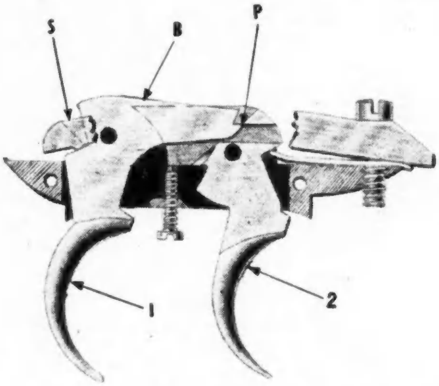


Fig. 1: Two-lever mechanism with double triggers. Majority of triggers, including those on 'Kentucky' rifles, are of this general type

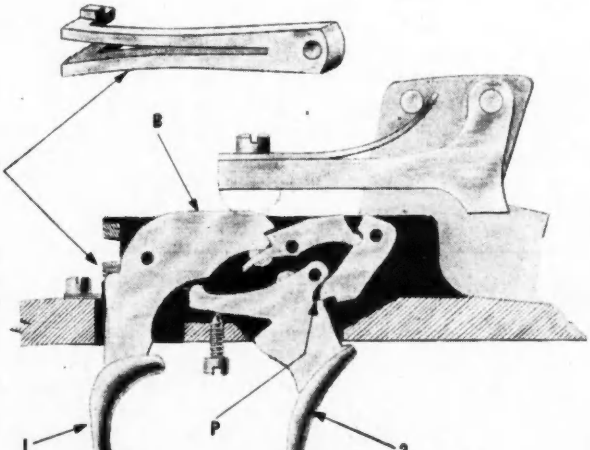


Fig. 2: Four-lever mechanism with double triggers. This form is commonly found on fine German Schuetzen rifles designed for offhand use

The object of a set trigger is to allow a rifle or pistol to have a firing mechanism with a heavy engagement between the sear and the firing pin, for purposes of safety. Then, by the process of pulling or pushing a 'setting trigger', a bar is cocked under heavy spring pressure and because of a leverage advantage that is gained it may be released by a light touch on the 'firing trigger'.

The illustrations show each mechanism in the set position and the various basic parts are designated the same in each case. Practically all set triggers have a provision whereby the gun can be fired by pulling the firing trigger without first having set the mechanism. Most of them also have an adjustment screw which controls the amount of contact surface at the crucial point of engagement.

The majority of set triggers are of the two-lever type shown in Figure 1. These consist of two levers. Number one is a setting trigger and number two the firing trigger. The setting trigger (1) is set under strong spring pressure and when released by touching the firing trigger (2) it flies up and strikes a hard blow to the sear, thus freeing the hammer or firing pin and discharging the gun. The spring is shown as S, the bar part of the lever that strikes the sear is shown as B, and the point of engagement with the firing trigger is at P. This same principle is used in all set triggers. They differ only in arrangement and shape of parts, and in the number of levers used to minimize the pressure at the point of engagement. If three, four or five levers are properly utilized, they obviously lessen the final weight at the point of engagement and the firing trigger may be released even by blowing on it, and yet the gun is safe at all times and completely under the control of the shooter.

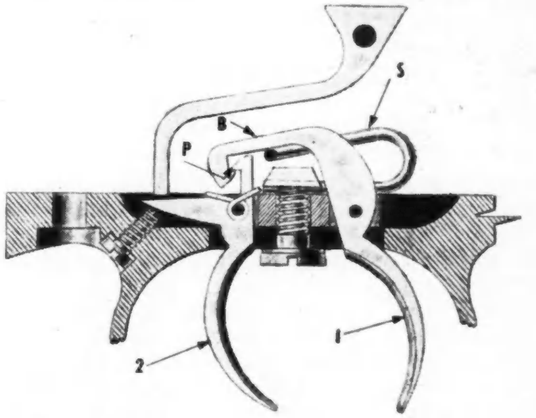


Fig. 3: Two-lever mechanism with reversed double triggers. This example is modern adaptation by Speer, using standard two-lever system

The set triggers made for use in the early American rifles, particularly the 'Kentucky' type, were mostly of the two-lever type with double triggers as shown in Figure 1. They differ mainly in the location of the spring.

A good example of the multi-lever system is shown in Figure 2. This is a four-lever mechanism used in a German Schuetzen rifle and is typical of these fine offhand rifle triggers that are made and finished with the exactness and care accorded a high-grade watch. This four-lever trigger will allow

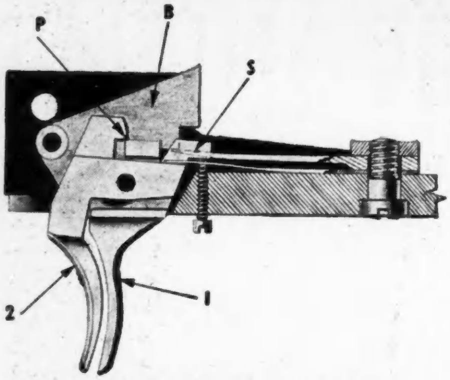


Fig. 4: Two-lever mechanism with double triggers together, designed for lever actions. Little modification was needed for installation

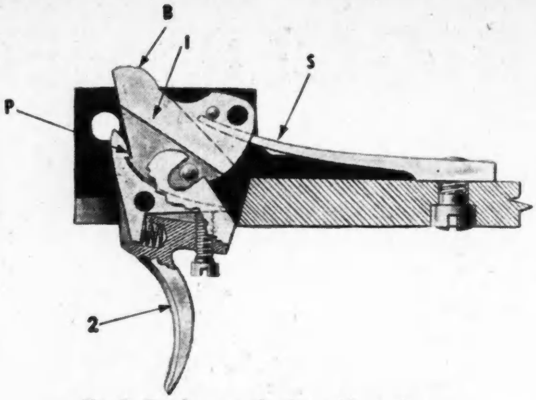


Fig. 5: Two-lever mechanism with single trigger. Called 'single set', this type was used on the popular old Winchester single-shot rifles

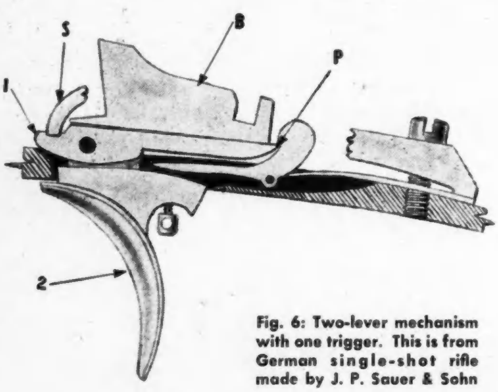


Fig. 6: Two-lever mechanism with one trigger. This is from German single-shot rifle made by J. P. Sauer & Sohn

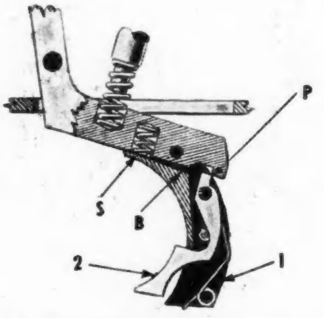


Fig. 7: Two-lever mechanism mounted in single trigger. This novel arrangement was developed by free-rifle fan M. H. Canjar

a very sensitive firing trigger that the two-lever type cannot duplicate.

Figure 3 shows a modern adaptation made by John R. Speer, using the standard two-lever system but placing the setting trigger in a forward position and having the firing trigger in the rear or more normal trigger position so that the distance to the pistol grip may be of standard length.

Figure 4 is a set trigger sometimes used in years gone by on Winchester lever-action rifles. It is basically a two-lever type with a setting trigger located in the rear which is pushed forward to cock the mechanism. The close-together positioning of the triggers allows the use of a set trigger that does not take up much more room than the plain standard trigger and therefore can be used more or less interchangeably in a standard rifle.

The single-set trigger as used in the Winchester single-shot rifle is shown in Figure 5. This is also a two-lever type in principle, and is cocked by pushing forward on the trigger. While thus pushing forward, parts 1 and 2 act together as a setting trigger and when pulling rearward to fire the gun, part 2 together with the separate catch acts as a firing trigger.

Figure 6 is a single-set trigger found in a German single-shot rifle made by J. P. Sauer. This mechanism is also substantially the same as the single-set trigger made by G&M Industries. The main variation from the Winchester single-set trigger is that B is made a part of the firing trigger. When pushing forward to cock the mechanism, parts 1 and 2 act together as a setting trigger; when pulling the trigger to fire the gun, part 2 works together with the separate catch as a firing trigger, thereby releasing part 1, which carries B upward to strike the sear.

Figure 7 is a novel arrangement of a two-lever set trigger that is mounted in the finger piece of an otherwise normal trigger. This mechanism is made by M. H. Canjar and is shown as mounted on the Winchester model 52 target rifle. Pushing forward on part 1 cocks part 2 in engagement with part of the stationary normal trigger. To fire, 2 is touched, thereby releasing 1 so that B strikes the normal trigger. This blow then causes the gun to fire as it normally would do when the plain trigger is pulled. The adjustment screw is provided with a taper so that when it is screwed in it forces part 2 aside, thus regulating the amount of engagement at P.

The set trigger mechanism is not to be confused with the more recent innovation that have come to be known as 'speed triggers', 'speed locks', etc. With a few notable exceptions these new triggers are all similar to each other in principle, though not alike in action, and none have a 'set' feature which is the distinguishing feature of the mechanisms that have been described.

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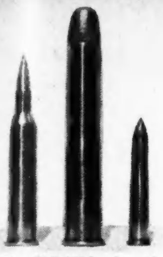
CHANGE OF ADDRESS: *Please report changes of address direct to the National Rifle Association, allowing five weeks before change is to take effect. Be sure to send your old address, preferably address label from the* RIFLEMAN, *together with new address. Copies that have been mailed to an old address will not be forwarded by the Post Office unless extra postage is sent to that office by the subscriber. Avoid such expense, and make sure of getting your* RIFLEMAN *promptly each month by notifying the NRA direct, in advance of change. Address the National Rifle Association, 1600 Rhode Island Avenue, Washington 6, D. C.*



The .450 Gibbs dwarfs Hornet (right) and .224 Krag cartridges

Farquharson Single Shot

IF YOU LIKE ITS LOOKS (AND SOME DON'T) THIS MAY BE THE VARMINT RIFLE OF YOUR DREAMS

By MORGAN G. HOLMES

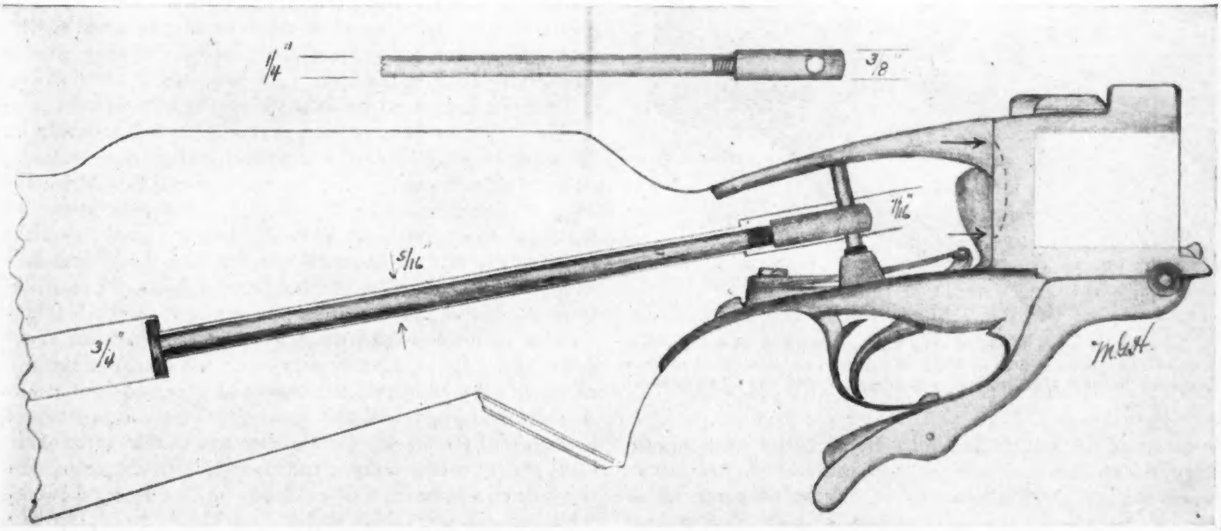
"YEP," SAID JIM, "you gun cranks are a bunch of screwballs. This is a typical example that proves the point. Here you have an antiquated relic of a single-shot rifle, upon which you plan to spend a pile of dough and no end of time. Yet you know damn well that when you're finished you'll still have a second-rate rifle compared to a good modern bolt action. You can't deny the fact that the bolt action would be easier to build, and it can use the same or a better cartridge than this Farquharson. You can probably get better accuracy from the bolt action because of the floating fore-end, you have some extra cartridges in the magazine if you want them, and you know you can use more powder in the same case because of better extraction. Hell, I can go on indefinitely but what's the use. You know these things. If I didn't know that, I'd feel sorry for you and try to do my good turn for the day and patiently attempt to make you see the light, but in your case it's hopeless. Everybody all over the world has given up the manufacture of single-shot actions for high-pressure cartridges. But of course you have to be different and resurrect the dead! You're touched in the head."

After this explosion (from which some embellishment has been omitted for printing) Jim made a determined attempt to depart from the shop with his usual calmness. It was a complete flop. The door slammed somehow to its final resting place with no hesitation or indecision, and he was gone.

After he had gone I sat quietly thinking about what he said, and had to admit that most of the things were true. A bolt action would be easier to build. It would do anything the single shot would and perhaps some things better. I had about come to the conclusion that Jim was right, when my glance somehow centered on the old relic. Unconsciously, as I had done many times before, I started to admire the beautiful action. The many hours of tedious filing, polishing, fitting and engraving that had gone into the making of the old relic were too noticeable to be cast aside without due consideration. The lines of the action, with its gracefully-shaped guard, lever and trigger, the fine scroll engraving which covered the whole action, exemplified to perfection the art of gunmaking. As my musings proceeded in regard to the old rifle my first impulse to agree with Jim's viewpoint gradually faded, and in its place I found I was feeling sorry for him. Only a gun crank will ever be able to appreciate the deep-down satisfaction there is in a fine arm. Crazy? Well perhaps, but it's a pleasant craziness. I wouldn't want to live my life without it.

The gun I had shown Jim was a .450 Gibbs Farquharson which I intended to convert into a varmint rifle. There is no bolt action in the world that could command the feeling I had for this old single shot, but to explain my reasons would have been wasted time. Jim would never have appreciated what I liked in the single shot. He owned some good rifles, but they were just like millions of others. To him they were as good as a man could get or want. You see, he was not a gun crank or, according to him, he wasn't nuts. In spite of my friend's disgust for the action, I consider the Farquharson one of the finest rifles I have ever seen.

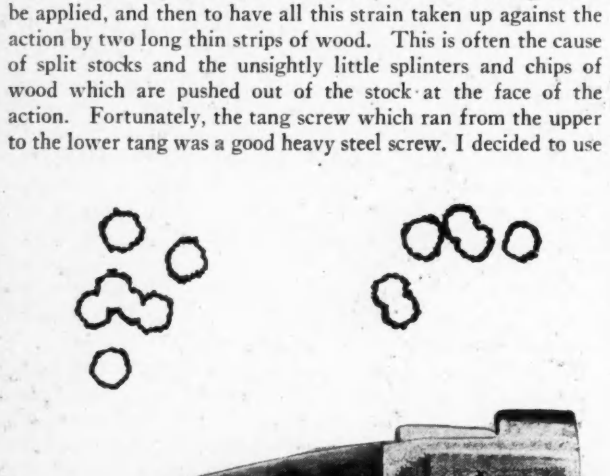
Of course everything but the action had to be replaced. Even the action needed some modifications before it would be suitable for a high-intensity cartridge. The method of attaching the stock had to be changed so as to stiffen the combination of stock and action as much as possible. I didn't mind losing



Gunsmith Morgan Holmes altered his old .450 Farquharson rifle to a fine .224 Krag varmint gun by rebarreling, restocking, and adding the stock bolt shown

the barrel and fore-end, but I did hate to remove the stock. It was made of beautiful dark Circassian walnut with much color and black wavy lines running its full length and showing on both sides. It was the kind of wood we all want and could get years ago, but today it would be like asking for the moon. However, the stock was much too low for a scope sight and the comb and grip were too far back for good support.

I started the rebuilding job with the action. The firing pin hole in the breechblock was closed up and redrilled to fit a new pin of smaller size. The block was also vented from the top to the firing pin hole, to allow gas to escape in case of a punctured primer. The upper tang was cut off about an inch shorter than it was originally. Luckily this was possible without ruining the pattern of the engraving on the tang. The rear end of the bottom tang was bent slightly to bring the grip up closer to the trigger. A stock bolt was wanted on this job and for some time I couldn't figure any way of attaching one without bad effects. If the usual lug was fitted between the upper and lower tang all the wood from the front of the stock to the rear of this lug would have to be removed. This would have left two long thin sides of the stock with no support between them. I can't see any sense in attaching a stock by means of a heavy bolt, upon which considerable leverage must be applied, and then to have all this strain taken up against the action by two long thin strips of wood. This is often the cause of split stocks and the unsightly little splinters and chips of wood which are pushed out of the stock at the face of the action. Fortunately, the tang screw which ran from the upper to the lower tang was a good heavy steel screw. I decided to use it instead of the conventional lug. By using this screw to take the pull from the stock bolt the stock could be inletted just as it was originally, with the exception of a hole through which the stock-bolt link is pushed into place. This method at least leaves some wood between the upper and lower tangs of the action. Any wood which can be left in a stock around the action mortise is always worth the effort to keep it there.

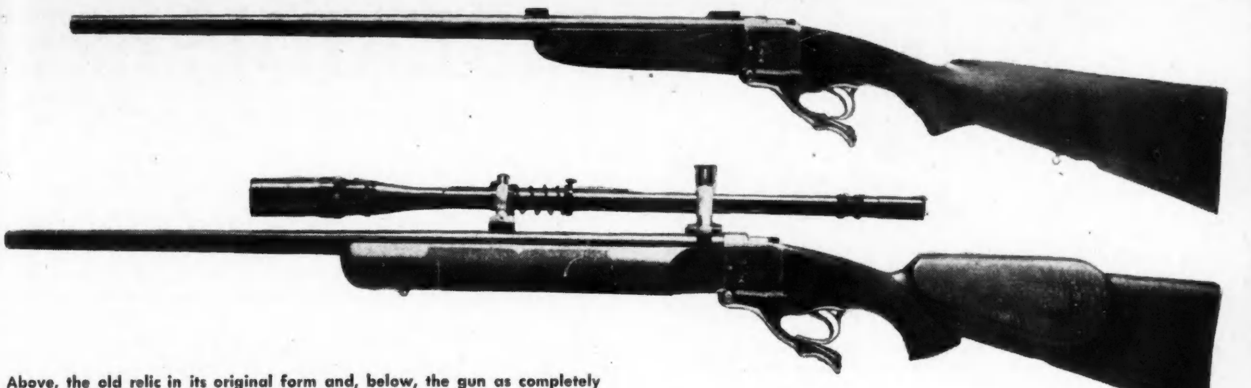


The Farquharson action before Morgan Holmes started to work. The two actual-size groups were fired at 100 yards, after remodelling job had been completed. Holmes' .229 Krag load was 37 grains 4064 and 50-grain bullet

To start the inletting we must first consider the hole for the stock bolt. The location of this hole will to some extent determine the position of the stock in relation to the rough blank. Therefore, it is better to start with a big blank of wood, unshaped in any way. It is pretty tricky to drill a small hole fifteen or eighteen inches long in a piece of curly-grained wood and have it come out exactly where the setup indicated it should. Some 'walk-out' of the drill must be expected and allowed for. This is the reason for using a large unshaped blank. Before we drill this hole it would be best to make up the bolt and link. Use a piece of quarter-inch drill rod eight or ten inches long. Cut a 1/4 x 28 thread on both ends. On the forward end of the bolt this thread should be about 1 1/2 inches long. The back end of the bolt can be threaded for about 1/2 inch. Look in the scrap box for a piece of steel rod with a 3/4-inch diameter (an old .22-caliber barrel can be used), drill a 1/4-inch hole in the center of this rod about an inch deep and tap it for the 1/4 x 28 thread on the bolt. Turn the bolt into this rod, using the end of the bolt with the short thread. Set it up to stay once and for all. Now cut the heavy rod off, leaving about 3/8-inch on the bolt for the head. Cut a screwdriver slot in the head and polish up the whole job.

Next we'll have to make the link. Use a piece of 1/2-inch steel rod. Drill a 1/4-inch hole into one end of this rod about one inch deep. Tap it for the thread on the bolt. Use a bottoming tap to cut the threads to the bottom of the hole. About 1/4 inch in back of this tapped hole a hole must be drilled to accept the tang screw. Make this hole just large enough so that the screw passes through it easily without any bind. Two flats can be filed across this rod to make starting the drill easier and more accurate. Get this hole as close to the center of the rod as possible. After this hole is drilled, turn the diameter of the rod down as far as possible and still allow enough steel at all points to take the pull from the bolt when it is set up in the stock. Cut the link off about 1/8-inch back of the tang screw hole, and polish the link to match the bolt. When the threading is done on this bolt and link use the utmost caution to see that all threads are concentric to the axis of the bolt. Any wobble in the link as it is screwed on the bolt is sure to pull the action out of line and ruin the solid contact that the action should have in the stock. It is just as important to have the pull from the stock bolt free of strains as it is to have the guard screws in a bolt action positioned so that they can be set up tightly without introducing any stresses between the stock and action.

Turn the link about halfway up on the bolt threads. Assemble the action and bolt complete and lay the assembly on the stock blank. Place the action in such a position as to allow plenty of excess wood in every direction. Mark the angle at which the blank will have to be cut to meet flush with the action face. With this line scribed on the blank, place the action in line with it and mark the depth of the 3/4-inch hole which will accommodate the bolt head. Next, scribe a line from the line at the action face to the butt of the blank to coincide with the axis of the bolt. Cut the blank off at the action line. If the blank is very much too long, cut the butt off on the approximate pitch angle and about 1/2 inch longer than the final length will be. Extend the long bolt line around both ends of the blank. On this line and in the center of the blank drive in two center-punch marks. By all means drill this hole on a lathe if possible. It can be done by hand but it's a hit-and-miss proposition at best, and should be avoided if a lathe can be used. I have found it best to drill the large hole



Above, the old relic in its original form and, below, the gun as completely remodeled by Morgan Holmes. Note clean, functional lines of the new stock

first. Chuck a ¾-inch drill and have the lathe turn fast. Put the center of the tailstock in the center-punch mark at the front end of the blank. Start the lathe, and slowly bring the punch mark on the buttstock in contact with the drill. Feed the blank slowly by the tailstock screw, giving the drill plenty of time to cut its way through rather than be forced into the wood. Remove the blank from the drill often and clean out all the shavings and dust. When the ¾-inch hole is in to its required depth, start the 5/16-inch hole in the same manner. Be sure to center the ¾-inch hole and bore in about half way. Then reverse the blank and finish the 5/16-inch hole from the front of the blank. If the work is done carefully the two holes will meet. In case of some run-out the hole will have to be trued up either by running the drill all the way through the hole several times, or by the use of other tools that may be available or made up.

The only other point that may be tricky outside of the regular inletting is to be sure that the mortise for the upper tang is located directly over the hole for the stock bolt. This can easily be done with dividers, but don't forget to lay out the inletting with this hole in mind. When the inletting is complete drill the hole for the tang screw. Make the hole a little larger than the screw so that the screw will not keep the stock bolt from drawing the stock up to the action. Never forget that all the wood at the action face must be in solid contact. This not only includes the flat parts of the stock which rest against the flat action surfaces but also the surfaces of the tenons on the stock which fit into recesses left for them in the action. We might say that the wood that contacts the action face is the recoil shoulder of the single shot, and it should be given every consideration and care in fitting.

When the inletting is about complete it will be necessary to open the 5/16-inch hole originally drilled for the stock bolt so the link can be pushed into place. This drilling will of course be done from the forward end of the blank and must be large enough to allow some clearance around the link. Be sure this hole is enlarged to a depth sufficient to allow the bolt to draw the action tight against the stock without having the link hitting the bottom of this enlarged hole.

With everything completely inletted the assembly is as follows: First, push the link in from the front of the stock. Push the bolt in from the rear and start the bolt in the link. Set the action in place in the stock, line up the link through the tang screw hole, and put the tang screw in place through the link. Set up the tang screw and then tighten the bolt. Use reasonable care in tightening up the stock bolt as the ¼ x 28 thread is pretty fine and too much pull can be applied to the action with comparatively little strain on the screwdriver.

The weakness of the single shot in regards to stocking is in my opinion due more to the fore-end than the stock. It is seldom that a single shot shoots as well as a bolt action when a light sporter-weight barrel is used. I believe this is due to the fact that the single-shot fore-end cannot be made to apply pressure against the light barrel to dampen its vibrations. On the other hand, it cannot be made full floating with a heavy barrel and therefore will always be more sensitive to the sling or other pressure than the full floating fore-end on a bolt action. On an experimental Winchester single-shot action I brazed a heavy piece of ¾ x ½-inch steel to the action. This piece of steel was bent before it was brazed so that it was about ¼ inch below the barrel and ran directly beneath it for about 10 inches. This Winchester was fitted with a standard light sporter-type barrel and the fore-end was fastened with three screws to the steel fore-end support. I bedded the fore-end to be a snug fit around the barrel and to apply the usual pressure at its tip. It was by far the best performing light-barreled single shot I ever saw.

I have heard rumors from several sources that new single-shot actions are to appear on the market. If this is true, I sincerely hope the designers of these actions have given the method of attaching the fore-end serious consideration. A single shot should be made in such a way as to give the stocker a choice as to how the fore-end is to be bedded. When and if this is accomplished the single shot will never again be considered second to the bolt action as far as accuracy is concerned. Such an action designed with short tangs to give latitude in stocking, fitted with a stock bolt, a retracting firing pin traveling in line with the bore, good leverage on the extractor, a hammerless action, well-proportioned and well-finished, would make the best varmint rifle a man could want.

That's enough—I had better stop right here. Yep, my opinions are prejudiced. Facts seldom come from a prejudiced mind, so I'd better go easy on making direct comparisons.

So, the relic has been resurrected. Just how successful the old action has been in retaining its distinction and usefulness would bring forth a varied selection of opinions. And I suppose, as Jim said, these opinions may signify to some extent the sanity of the critics. Be that as it may, a rifle which is as comfortable to shoot as this Farquharson—one upon which your cheek can *really* be put down on the comb, and still have your eye in direct line with the target scope—that drives a 50-grain bullet in the neighborhood of 3800 feet per second and keeps the bullets consistently in groups measuring under an inch at 100 yards—and last but not least, is a fine rifle to look at—cannot by any manner of means be classed as a has-been. But then don't forget, Jim thinks I'm nuts! ◆ ◆ ◆

FIREARMS of the

By STEPHEN V. GRANCSAY

Showing the influence of both northern Italy and Spain are the flintlocks of Southern Italy (Figs. 9-11). The main difference between the north and south Italian types is that in the north the mainspring is fitted on the inside of the lock plate, whereas in the southern locks the mainspring is on the outside. It is not difficult to distinguish the Spanish from the South Italian lock, for the Italians contributed a local refinement. In all Spanish locks it will be found that the upper leaf of the mainspring extends beyond, and presses *upwards*, against the base of the doghead (hammer), the fall thus being caused by an upward pressure, whereas in South Italian locks it is the downward pressure of the mainspring upon the forepart of the base of the hammer which causes the fall. This latter feature is merely an adaptation of the downward pressure of the mainspring on the tumbler of the North Italian snaphaunce.

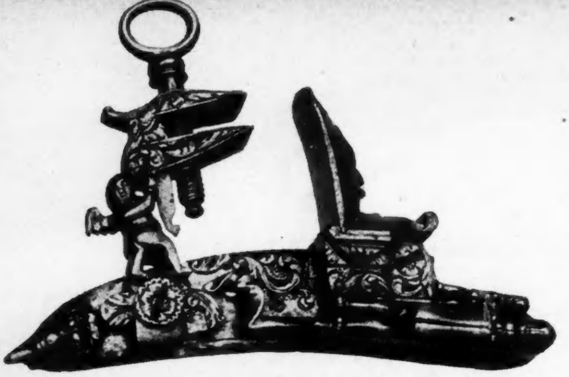


Fig. 9: South Italian miquelet gunlock, about 1650. The outside mainspring acting downward is a characteristic of south Italian firearms

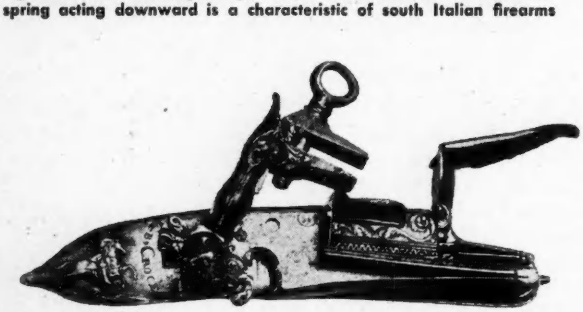


Fig. 10: Another 17th century south Italian miquelet lock, inscribed 'G. B. Croce.' Straight outline of hammer is typical of these gunlocks

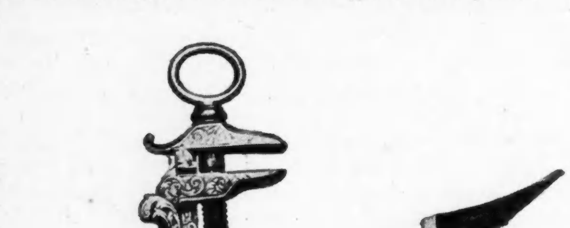


Fig. 11: This Italian miquelet lock is inscribed ROMA FECI 1725. All of these are in the collection of the Metropolitan Museum of Art, NY

Like those of Brescia, Spanish barrels have always been held in great esteem, especially since the iron of Biscay was of superior quality and because they were considered to be forged and bored more perfectly than others. It should be observed however that, of the Spanish barrels, only those that were made in Madrid are considered valuable. The Madrid firearms, unlike the French and Italian, bear the same name on the barrel and lock. In Catalonia, on the contrary, the barrel and the lock nearly always bear different makers' marks.

The iron for the Spanish barrels was greatly purified in the process of heating and hammering. A mass of mule-shoe iron weighing about forty pounds was used to make a barrel which, rough from the forge, weighed only six or seven pounds. Instead of making the plate overlap a little where the edges were joined, another complete turn was made, so that every Spanish barrel may be said to be double throughout. The different portions were also forged, so that the grain of the iron, instead of being longitudinal, is disposed circularly, and follows the round of the barrel in such a manner as to give the effect of a ribbon or twisted barrel. To finish the interior a round plug gauge was used to guide the file. The outside was finished by turning in a lathe.

The name miquelet derives from the body of men organized all over Spain as a government escort, who were called 'Miquelites' from, it is said, one Miquel de Prats, an armed satellite of Caesar Borgia. The miquelet lock, which is characteristically Spanish, differs both by its exterior aspect and by its mechanism from the snaphaunce and the ordinary flintlock. It is made up of nine pieces, most of which are on the outside of the plate. The mainspring and hammer assembly are on the outside of the lock plate; the sear and sear spring are on the inside. Two studs, one half-cock and the other full-cock, pass literally through the lock plate. When the hammer is pulled partway back toward the full-cock position, the half-cock sear engages the hammer and holds it firmly in place. When ready to fire, the hammer is drawn back to full-cock position. Pull-

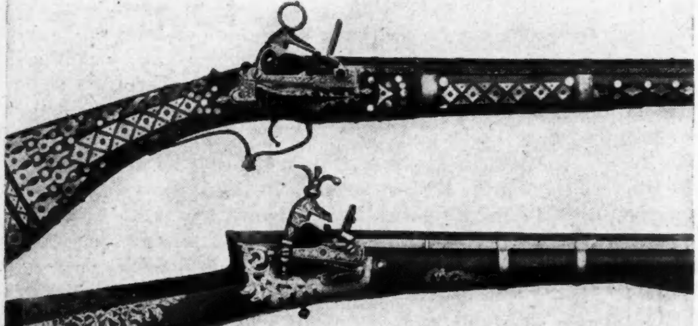


Fig. 12: These elaborately decorated 19th century weapons illustrate the spread of the miquelet lock into the Eastern countries. They are (top to bottom) Balkan, Turkish and Caucasian

MEDITERRANEAN

CONCLUSION

ing the trigger draws both studs in, allowing the hammer to fall. The frizzen (battery) and pan cover are in one piece; on the face of the frizzen a piece of ribbed steel, wider at the top than at the bottom, is wedged so that when worn it may be replaced; the contour of the hammer is always straight and not S-shaped; the hammer screw usually has a ring head. The miquelet was the most commonly used lock in the Mediterranean area, and was also used in Turkey, the Balkans, and as far east as Persia (Fig. 12). I have already referred to the influence of the miquelet on the South Italian lock (RIFLEMAN, February), and have compared the workmanship and ornamentation of such locks with those of Brescia.

On the island of Sardinia an elegant and particular type of miquelet gun was developed which was produced there during more than two centuries without notable change. In these guns (Fig. 13) the oriental influence is obvious, but they are not similar to any oriental types. The earliest Sardinian guns date from the seventeenth century. Their stocks are similar in shape to French stocks of the Louis XIII period, and also recall somewhat Arab stocks. The originality of these guns is due to the mountings. Their thin stocks are decorated with a veritable lacework of iron, pierced, chiseled and engraved. The delicacy of the engraving and the elegance of the scrolls are often masterpieces. These mountings show the same ruggedness and exotic influence which appears in the Spanish firearms with miquelet locks discussed last month. This Spanish influence is understandable, for the island of Sardina was a Spanish province from the fourteenth century until1708. The locks are always of miquelet type, but with special features which appear only on Sardinian locks. For example, the friz-

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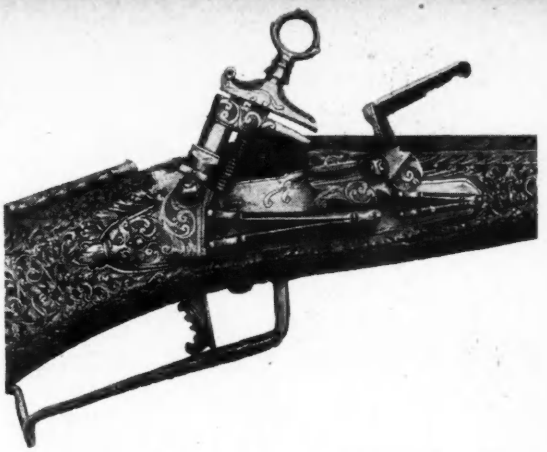


Fig. 13: This Sardinian miquelet gun, made about 1725, has a stock covered with elaborate pierced iron. Lock is signed by Tom. Caffaro

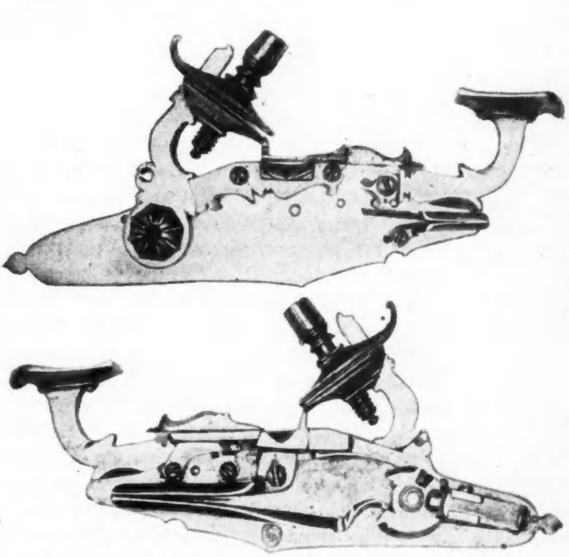
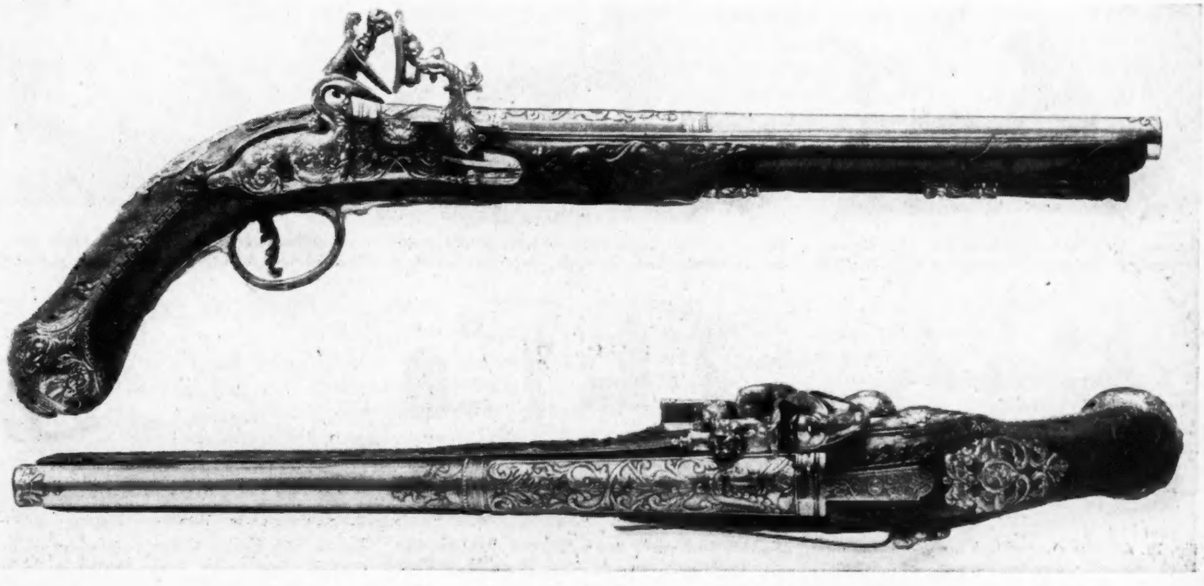


Fig. 14: Two views of a snaphaunce lock, probably German, 17th century. Mechanically, lock has features reminisent of wheel lock

Fig. 15: These snaphaunce pistols were made in northern Italy (Brescia) by an unknown maker about 1675. Complex decorations are typical of 17th century Italy



zen spring and the hammer spring, which are always secured to the lock plate one above the other in all the other models of miquelet lock are, on the contrary, in Sardinian locks always placed one in front of the other. Also the hammer spring has leaves practically of equal length, while in other miquelet locks the upper leaf is twice the length of the lower.

The modern interpretation of a snaphaunce is a lock fitted with a sliding pan cover (which was derived from the wheel lock) and with a separate steel working upon a pivoted arm (Fig. 14). It is made up of fourteen pieces, most of which are inside the plate. However, in the seventeenth century the term snaphaunce was the general name for all flint-and-steel locks. There are two main types of snaphaunce, the so-called Dutch snaphaunce and the North Italian snaphaunce (Figs. 15-19). In the so-called Dutch snaphaunce, an early type, the sear passes through the lock plate and engages the tail of the hammer, when the lock is set at full cock (there is no half cock). It has a buffer screwed to the face of the lock to arrest the descent of the hammer when the piece is discharged. A third screw secures the anterior end of the lock, and the hammer does not have an external pivot screw as occurs in the Italian snaphaunce. The hammer is angular, like that of the wheellock or miquelet lock.

The origin of the so-called Dutch snaphaunce has not yet been satisfactorily explained. Its invention has been claimed for Germany, Holland, Scotland, Spain and Sweden. However, this so-called 'Dutch' snaphaunce may well have originated in Spain or in Germany, for one must recall that the Emperor Charles V was the ruler of Germany, Spain and the Netherlands. Charles V and his son, Philip II, also reigned in Naples, Sicily and Sardinia. The emperor also conquered Tunis in 1535 and attacked Algiers in 1541. Firearms were brought with both expeditions and it is likely that the snaphaunce was already known at that time. The emperor employed some of the best gunsmiths of the time. Wolf Danner of Nuremberg was in Charles's service when he invented the hair trigger in 1543, and the oldest dated wheellock known, a carbine in the Royal Armory in Madrid which bears on the barrel the date 1530, was made by Simon Marcuarte (corruption of Marckwart) the Elder, one of two gunsmith brothers whom Charles brought from Germany to Spain. In support of the probable German origin of the snaphaunce is an early snaphaunce pistol, bearing the Nuremberg mark, in the Tower of London (XII-736). Also German is a snaphaunce pistol of the Scottish type which is dated 1615 on the disc at the side of the pan and which for good reasons is considered to have been made in Saxony for William, Duke of Courland (See RIFLEMAN, November 1947). There were in Dresden two other similar pairs, dated 1598 and 1611 respectively.

The word snaphaunce (snapping cock) is of Dutch or German origin, so called because the hammer, connected to a spring, jumps forward with a snap, sending sparks into the pan. Incidentally, the steel, against which the flint held in the jaws of the cock strikes, was named the hen. (In France when a flintlock misfired, soldiers used the expression *avait pris un rat* (to have caught a rat); so today the word *rater* has the meaning "to fail to achieve the desired purpose." The verb *rater* comes from rat, by assimilation of the movement and noise of a released rat trap to the hammer of a flintlock misfiring). The word snaphaunce, like the words firelock and miquelet, also referred to soldiers armed with such a weapon. The snaphaunce lock was also used in France, Germany, the Baltic countries, Scotland and finally in North Africa where it remained in use until recently (Fig. 23).

In Northern Italy the snaphaunce was a favorite weapon and some of the finest ones were made there (Fig. 18). The Italian type has an S-shaped hammer and varies principally in the sear release which fits into a notch in the tumbler, and not through a hole in the lock plate as in the so-called Dutch type. It is not far removed from the true flintlock. In the Italian snaphaunce a shoulder on the inner side of the hammer strikes the top of the lock plate. This is the same type of buffer that is used on the true flintlock. With the fall of the cock, the tumbler also strikes the bridle (internal), thus acting as a double buffer. In the South Italian lock, the hammer has the same type of buffer, and there is a half-cock safety stud. If features of the North Italian snaphaunce and the South Italian flintlock were combined, one would have the true flintlock; that is, the S-shaped hammer with shoulder (buffer), the notch on the tumbler for the sear, and the complete battery (pan cover and frizzen combined). The true flintlock, of course, has two notches in the tumbler, one for half-cock (a safety in which the sear is wedged into a groove thus preventing its release by trigger pressure), and the other for full-

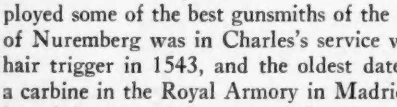


Fig. 16: North Italian snaphaunce, 17th century. Sliding pan cover distinguishes it from flintlock

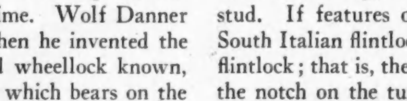


Fig. 17: Another snaphaunce of same period. Note use of human faces as main decorative element

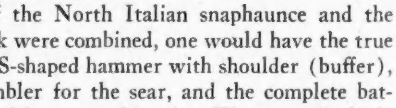


Fig. 18: North Italian snaphaunce pistol lock by 'Acqua Fresca A Bargi'. Bargi is town in Bologna

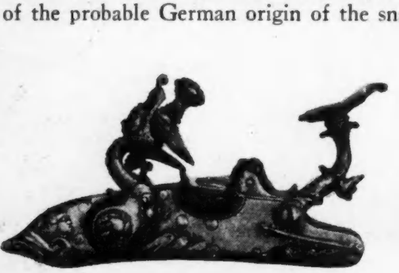


Fig. 19: Another view of lock in Fig. 18. The date 1679 appears under mainspring, with signature

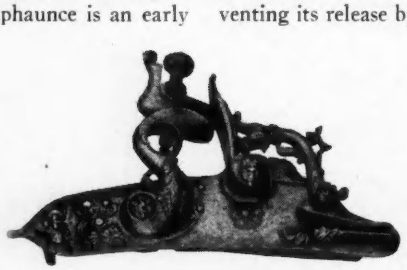


Fig. 20: Lock parts and side plate from another arm by Acqua Fresca of Bargi, made about 1680

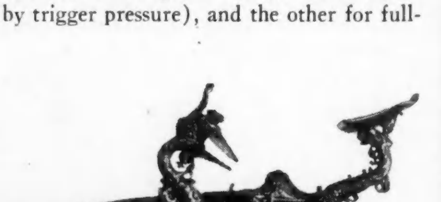


Fig. 21: 17th century Italian snaphaunce of intermediate type, with many Germanic features

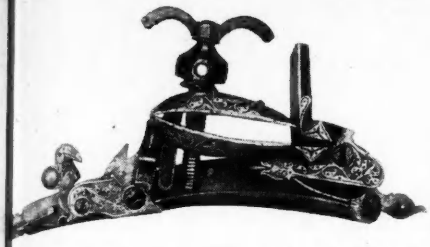


Fig. 22: Arab (Moroccan) miquelet gun lock dated 1758-59 A.D. Note the dog (catch) behind hammer. Barrel of the gun is signed Lazarino Cominasso

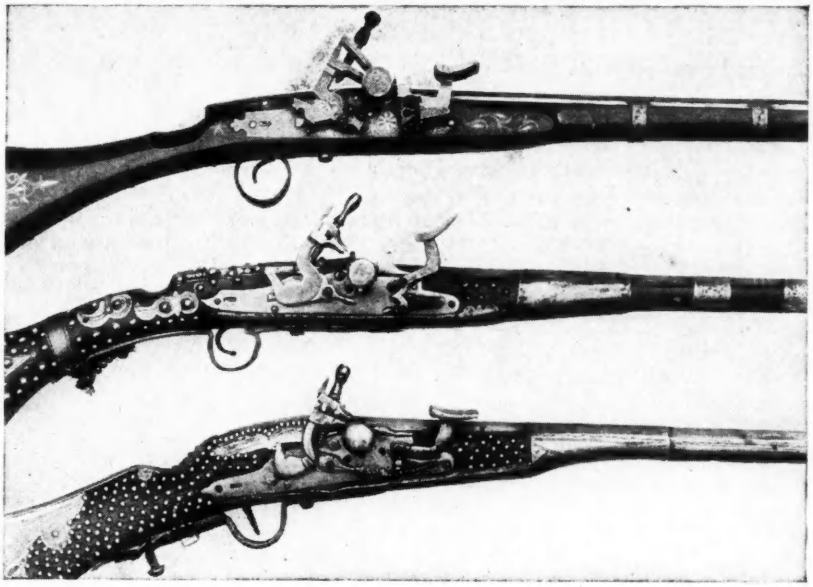


Fig. 23 (right): Snaphaunce guns, Algerian (Kabyle), 19th century. Upper one is dated 1876-77

cock. The South Italian lock itself has all the technical advantages of the true flintlock. It is difficult to believe that the true flintlock was not independently developed in Italy.

The doglock (a modern designation) is found on the snaphaunce, the miquelet and the flintlock. Its particular feature is a separate hook (dog) which is pivoted to the exterior of the lock plate and which engages with a notch in the base of the hammer, thus holding the hammer securely at safety. The doglock was used by the Spaniards, Swedes, Scotch, English, American colonists and by the Arabs. In the Arab miquelet doglock (Fig. 22), the dog has to be moved by hand to engage the notch; when one wishes to disengage the dog, it suffices to cock the hammer; the spring of the safety hook (dog) throws it back leaving the cock entirely free. In a German doglock in the Metropolitan Museum of Art, the dog engages automatically at half-cock. When the lock is at full-cock, the dog is prevented from engaging the notch by a spring which holds the dog back until the hammer has fallen.

We have seen, in these many instances, how influences have spread from one country to another, and from one people to another, carrying with them not only mechanical varieties of firearm locks but decorative motives. Thus the snaphaunce lock appears among such widely scattered nations as France, Germany, Scotland, and in North Africa, the Baltic and Mediterranean countries and colonial America. Because it was a logical development from the earlier wheellock, the snaphaunce may have been developed independently in more than one of these localities. So too, the Spanish-Moorish decorative motives spread from their countries of origin, perhaps to Italy where they added a flavor to the more graceful designs of the Brescian master chiselers, and certainly to Sardinia, where there appeared a peculiarly local type of firearm with ornamentation in the Spanish manner.

It becomes obvious that, lacking documentary evidence in the form of contemporary accounts or the equally valid evidence of early dated examples, it is all but impossible to make definite statements as to the origin of any firearms type, mechanical or decorative. Examples of both have gone from country to country in the wake of trade and political alliances, and in cases may have been developed independently in widely separated localities. Thus, we can say of no major form of early firearm, "It was developed by So-and-So, in a certain year, and in this specific place."

Perhaps of greater importance to our understanding of early firearms, however, we can in many instances determine the mutual influences, springing out of various cultures, which have led to the development of these early guns and pistols. Knowing those influences, we have another example before us of the gradual building-up of material cultures among our forebears. By no means peculiar to firearms, this gradual accretion has typified the evolution of almost everything in our daily life. Each innovator has taken what has gone before, added to it, and passed it on. Even in the clean, streamlined, completely functional firearms of today we can see, if we know what to look for, the influences of European armsmakers of bygone centuries.

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NEXT MONTH: *Most eagerly-awaited feature of the April issue will be the first of the* RIFLEMAN'S *series on loads for specific cartridges—in this case, the popular .30-'06. The discussion will include basic data and dimensions, plus a long list of selected loads for every purpose, and with every generally-available powder. Best of all, the data will include definite pressure figures as a guide for the safe assembling of the more powerful loads. Other articles will include a detailed discussion of bullet design, a trip (via more exclusive* RIFLEMAN *photographs) through Winchester's amazing research laboratories, and for collectors, a study of the rare Thuer alteration of the percussion Colt revolver. Rounding out the issue will be a feature on Alaskan hunting, tied in with one of the most striking big-game covers we've ever had.*

BAGGING THE BIG CATS

Continued from page 21

you can be safe in betting you're going for a horseback ride! Or, if you're on foot, take time to tighten up your belt a notch, take a sip of water from your canteen and draw a long breath—because, mister, you're on your way!

With the first bay of the striking dog the rest of the hounds will be there on the run. They all take a sniff, and testify the first hound was right, and away they go!

A pack of good lion hounds is made up of several types of dogs: fast trailers, cold trailers, and a couple of hounds that have a lot of fight and grit, and can force a lion into a tree or keep it bayed until the hunter gets there. Sometimes all these desirable traits are in one dog—and that's a dog without price.

If your lion trail is cold, the slow, careful trailers take it over and work it out step by step, determining first which way the cat was going when he passed through there. As to how they work out that little wrinkle—I don't know, and doubt if anybody else does. If the trail is hot, there is no hesitation.

Hot or cold, the pack takes the right direction and every one of them cooperates in moving it. Some work slowly from footstep to footstep. Others make a big circle and 'cut' the country ahead. If the 'open trailers' pick it up, they bay and the rest of the pack runs up to join them. In this way the whole pack moves ahead.

As the trail gets hotter, the pace is faster. In a couple of hours or so, unless you're really lucky and do it right away, the pack will 'get him up'. From then on they'll be running breast-deep in scent and won't bother to put their noses to the ground or smell up on twigs and brush, but will trail as fast as they can run, every hound baying continuously.

A lion hunter, and those who go with him, will thrill to the hound music. In the pack will be deep-noted bass voices. Others will give tongue in a higher pitch. Common terms for the baying of different dogs are rolling bass, turkey-mouthed, bell-mouthed, bugle-mouthed, chop, coarse-voiced—all of which are descriptive.

The baying of a pack of hounds on a lion's trail blends beautifully and the whole, muted by pines and spruce and accentuated by sheer rock cliffs and canyon amphitheaters, is incomparable to any other sound. This wild orchestration of the chase is continuously rising in crescendo and increasing in tempo as the race gets hot.

The horseback riding over rocks and hills, which you must do to stay within hearing of the pack of hounds, is in itself a large part of the thrill of the chase. You feel like a male Valkyrie.

When the climax comes with the treeing of the lion or bringing it to bay . . . well, if by that time you can't feel each hair on the back of your neck stand up, you're really cold-blooded. A treed or bayed mountain lion glaring in green-eyed hate and spitting at a bunch of garrulous, big-mouthed hounds is the epitome of the whole-hearted hate and disdain of one branch of the animal kingdom for another. The tawny, sure-footed grace of the big cat as he moves about on high limbs of trees or rocks is something you can't help admiring if beauty has an appeal for you—and if you haven't just lost a calf or two to the disdainful big tabby.

If you can get close enough the lion will lay back his ears for you, the green light in his eyes will pale to flashing yellow fire and his lips will curl and lift away from inch-long fangs.

If you still aren't thrilled, remember that this big cat in front of you can bite through the rib bone of a cow, or shatter the leg bone of the same animal with one bite. He can shear through a three-eighth inch hemp lariat as easily as you bite through a string of cooked spaghetti.

When you have drawn down on this cat remember to make your first shot good—kill clean—because if you nick him and knock him out of the tree or off the rock into the middle of the clamoring dogs, you'll see . . . there's hardly any use trying to describe a fight between a mountain lion and a pack of hounds. It needs television and sound effects.

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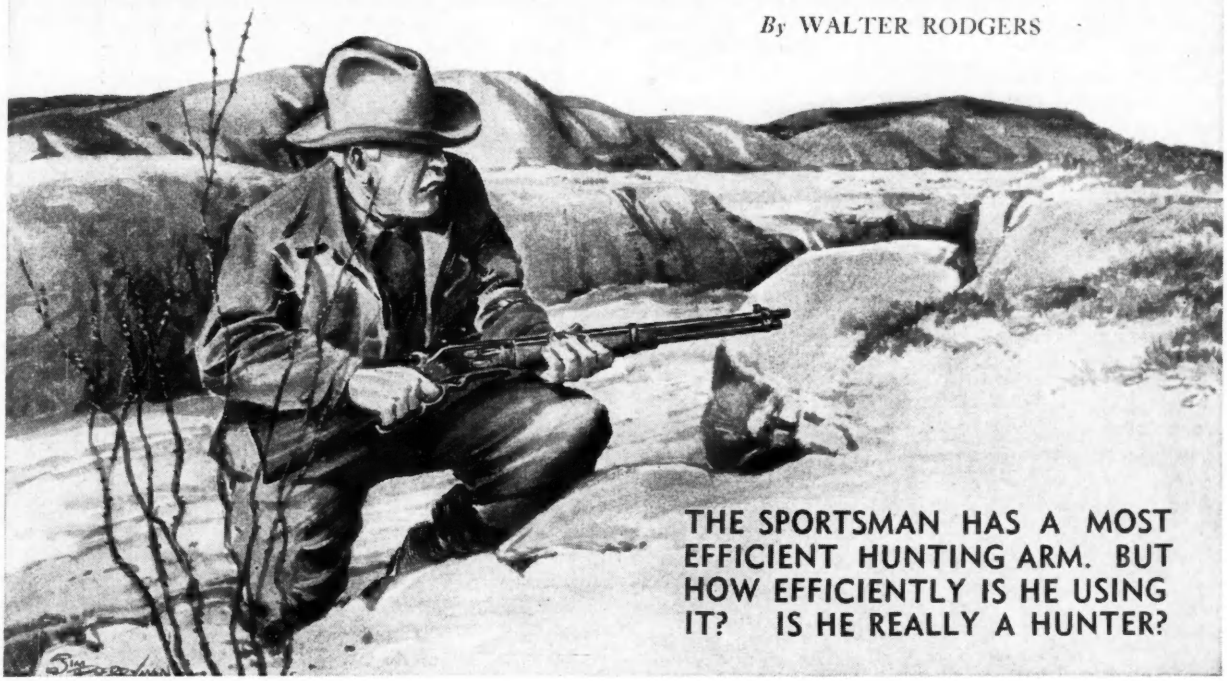
Goswick places rifle in scabbard with butt toward rear so it will not hook on brush or twigs. Most hunters sling the rifle on near (dismounting) side

Here's a good lion hound! He's fast in trailing, and has followed the lion into the tree, where he pushes it to the last possible inch of retreat

TOO LAZY TO HUNT?

By WALTER RODGERS



THE SPORTSMAN HAS A MOST EFFICIENT HUNTING ARM. BUT HOW EFFICIENTLY IS HE USING IT? IS HE REALLY A HUNTER?

NOT LONG AGO I was patrolling a large area of typical antelope range east of the Pecos River, in southeastern New Mexico, with an old-timer. The terrain was broken occasionally with deep gullies and wash-outs that cut across the sloping plains in a general westerly direction. Vegetation consisted principally of bunch grasses never more than two feet in height, and it was very sparse. At widely scattered intervals low, dwarfed mesquite clumps appeared, not sufficient either in quantity or in size to afford much cover. As we motored over dim ranch roads, winding around headers and crossing deep draws, we rolled across miles and miles of almost flat country, with occasional rises and dips affording new vistas of range as we topped the long low swells. Scattered droves of antelope had been sighted along our route. Upon coming into view, these alert creatures of the arid lands always spotted us and were usually running at top speed before we spotted them.

Since we had not been able to approach within less than a quarter mile of any antelope, I questioned my companion as to his opinion of the best gun to use in hunting these wild creatures.

"Well," he reflected, "of course there has been most every type and caliber of rifle imaginable used on antelope, since the gun brought by every settler that came west varied in make and caliber according to the owners ideas of what constituted the best for his particular needs. But I reckon they's been more antelope and deer killed with the old .38's and .44's than any other calibers in the West."

"You mean, of course, the .38-40 and .44-40, commonly referred to as .38 and .44 WCF?" I asked him.

"Yep. That's the guns I'm referring to," he affirmed. "Fact is, in later years most cowmen went in for the .30-30, it bein' much longer ranged and at the same time easily carried on a horse. Them old .30-30's has accounted for a heap of game."

"I know that's true," I told him, "but most modern sportsmen are under the impression that even the .30-30 is not adequate for deer and antelope now'days. Especially antelope, because they are found in open country that makes it mighty hard to get a shot at one."

"Bosh!" exclaimed my friend, with a scowl of displeasure on his sun-tanned face. "Them kind of fellers is just too downright lazy to hunt. That's what's the matter with them. Why we used to kill antelope regular with them old .38's and .44's, and we didn't cripple any to wander off and die on the range either. When you plug one through the heart or neck with a good old .38-40 bullet, he's goin' down. They ain't ever made a gun that will kill an animal deader than them old guns did."

"I know that's right too," I agreed, "but we've got something to consider here that I'm afraid often passes us old-timers up. That is, most of the sportsmen that come out every year to bag their legal quota of game are town-dwelling citizens. Those fellows don't ordinary have a chance to shoot a gun half a dozen times a year. Even the ones that have access to modern shooting ranges, and get some target practice, they don't get a chance to live among game like we do. What they don't know about stalking game in its natural habitat, plus the time they have to spare for the hunt, usually places them on the losing end of the deal. If they didn't possess a long-range flat-shooting rifle, and know how to use it, they wouldn't stand much chance at getting an antelope buck that can smell danger plumb across the rotten Pecos and lope into the next county before the sportsman can get sight of him."

Condensed from a chapter of Walter Rodger's Huntin' Gun *($3.50), to be released next month by Sportsman's Press.*

"That's one side of the story," he conceded patiently. "But look. Yonder stands three antelope on the crest of an open ridge. They's a big buck and a doe and a yearlin' there. If it was special antelope season on this range, that buck would be legal game. Right?"

"Yes, for the man able to take him," I agreed.

"That's right, for the man able to take him. Now how far away is he?"

"I'd say close to a thousand yards at least," I guessed.

"Maybe not that far," my friend replied, "but eight hundred anyway. Now, for the sake of the point in view, how would you go about making a clean kill of that antelope from here? You know when you move, he will too. Then the next time you see him he may be a mile off."

"Well, if I was goin' after that feller, regardless of the range of my gun, I'd drop back to that last draw we crossed. I noticed a drain coming into it from higher up which appeared to head into the broken rocky area up yonder, not too far from where them antelope are standin'. I'd tie my old red bandanna on one of the soapweed stalks there by the side of the road for him to watch while I made my stalk. When I attained that gully, I'd crawl up it to that other ditch, then work my way up towards that rocky header—it looks to be about two hundred yards from them antelope. If I could crawl up that close I could make a clean kill with my old .30-30."

"Why shore!" expostulated my companion heartily. "Yuh could raise your sights on an old .44 to two hundred yards and plug him dead center from there with it. But we're discussin' them long-range guns you said them city fellers hunt with. How would yuh get him with one of them?"

"I'd use the same policy I just outlined," I told him frankly.

"Yuh mean yuh wouldn't shoot at him any further off than yuh would with your .30-30?" he questioned.

"No, I positively wouldn't," I said.

"Why?" He asked the single word.

"Well, on account of that's as far as I can shoot regardless of the range of my gun. My .30-30 will kill clean at three hundred yards, but I can't shoot it accurately that far. One hundred and fifty yards is my limit."

"Then where does the long-range rifle come in at?"

"They's plenty of fellers that can shoot 'em, I reckon," I told him with a grin.

"Bosh!" he repeated his favorite expression. Then squaring around in the car seat where he could face me, he pointed a gnarled forefinger at my nose and told me stoutly. "I've shot guns with them telescope sights, and so have you. If you've got the range figured right, the wind is favorable, your glass ain't smeared up with pollen off th' grass or misty with dew or dimmed with a film of dust, and ain't got out of proper alignment from carryin' on a hoss or bouncin' in a truck, and you have time to assume a good position, you've got a fair chance to make a clean kill at long distances. Still, any one of them things bein' present, yuh'd likely gut-shoot that buck, or maybe break his leg, and regret it.

"Then we are agreed that even if we had a rifle shootin' in a six-inch bullseye at four hundred yards, you and I would still have to crawl within a hundred and fifty yards of Mr. Buck before we could depend on making a clean kill, right?"

"Exactly!" he agreed. "Then what's the use of them long-range guns in the first place?"

"Why, even if I was layin' within a hundred yards of that buck, aimin' to shoot him, I'd feel better with a gun that would send its bullet on a flat, fast line right into the spot than I would with a slow, lopin' slug that'd have to be arched over in a rainbow circle and dropped into the target with most of its velocity spent."

"Yeah?" my friend asked with a sour look on his good-natured face. "You've got somethin' there, alright, but if you had this here half-mile rifle and a powerful glass to sight through, how long would it be before you'd quit stalkin' yuh game and go to bangin' away at it as far as yuh could see, like some of these here so-called sportsmen does?"

"Reckon I wouldn't," I told him simply, "and neither would you. Once a man learns his shootin' range, and is sportsman enough to respect the game and the other fellows right to share it, he quits riskin' them long possibles. It's just like you are about your saddle horses. You used to rope cattle on long-haired mustangs that would have to get down and run like a chapparral to catch a cow. Now you are ridin' horses that can step up to a cow's side before yuh get a hole built in the catch end of yuh string. Still yuh ain't shortened yuh rope at all. You like a good fast hoss and a long rope, and yuh want to get up as close as possible before yuh spill yuh loop. See? That's the way we are about shootin'. We like to own a gun that we know will shoot fast and flat, though we know our shootin' range at live game is a very small portion of the guns possibilities. It's my personal opinion, based on experience and observation in the field with guns and gunners for many years, that the first essential to clean killin' is to be hunter enough to stalk yuh game, takin' advantage of whatever type of cover the country affords. Get up close as possible and make a clean humane kill. That affords more lasting pleasure to the true hunter than all the long shots could ever provide. Then, just in case something does get wounded, and a long shot is the only hope of putting it out of its misery, you've got a gun that's equal to the occasion—provided yuh can shoot it.

"You're right," agreed my friend, "there are too many fellers goin' out every fall armed with what he figures will kill his antelope or deer as far as he can see it. They think that because they can see an antelope a half mile away, and can't see no way to get up closer, they ought to have a rifle that will kill him out there where he is. They've got 'em too! Rifles and sights that will hit and kill at incredible distances. But the chances are too great against connecting with the right spot at them distances to make a clean kill. They shouldn't shoot that far, even if their guns are capable of it."

"That's right. One shouldn't drive at ninety miles an hour on our highways just because his car is capable of it. That's why states have laws governing speed. You can buy a car that's capable of carryin' you twice the legal speed limit, but you've got to have a private speedway to use that excess speed on. Otherwise, you're violating the law, endangering the lives of other people on the roads. It ain't safe. Neither are our long-range rifles safe when the limit of their accurate shooting is used regularly in the game fields." ◆ ◆ ◆

Legislative Box-Score

WITH ALMOST EVERY STATE LEGISLATURE MEETING THIS YEAR, 1949 IS SURE TO PRODUCE A BUMPER CROP OF FIREARMS PROPOSALS

Forty-five state legislatures will meet this year. Many of these bodies have had or will have firearms-control measures thrown into the legislative hopper.

Information bulletins are sent to all members in a state when we learn of such new legislation. Usually we do not bother members or busy legislators with mail simply because an individual or group has issued a statement to the newspapers saying that they intend to have a firearms bill introduced. Such stories are frequently garbled and in most cases the proposals never get as far as the actual introduction of a bill. Frequently a letter from the NRA to the person mentioned in the item clears up the matter.

The first report we receive on an actual bill gives us the title number and committee reference. Once in a great while this is all the information we can send to members. Generally we receive a complete copy of the proposed bill within a few days. Because the exact language of a law, including its punctuation, must be studied carefully before it can be evaluated intelligently we usually wait until the actual bill is received before writing members in the state concerned. This enables members to have all the facts and to make up their own minds about a proposed law before they contact their legislators.

Final copy for the Rifleman has to be handed to the editors about three weeks prior to publication date so that information given in this legislative box score will not be as up-to-date as legislative bulletins which may recently have been received by members. The purpose of this box score is to give members a general picture of what is happening in legislatures all over the country.

During legislative periods pressure is so great on the men who handle this phase of the Association's service to its members that few letters can be acknowledged personally. All newspaper clippings and reports of action taken by individuals and organizations are, however, carefully read and greatly appreciated. We hope that our readers will understand the situation and will accept this as a personal "thank you."

"Another one of your drunken friends I suppose!"

Here is the legislative box score as of February ninth:—

Arizona: A proposed bill widely and inaccurately reported as having been 'approved' by the NRA has been tabled by its proponents, the Arizona County Attorneys' and Sheriffs' Association and will not be introduced into the Legislature.

Arkansas: House Bill 195, by Representative Walter J. Young and Emmett Gaithright of Union County, at the request of Sheriff O. E. Bishop of Union County, Secretary of the Arkansas Sheriffs' Association. Referred to the Committee on Judiciary.

Would require registration of all pistols and revolvers including those in hands of dealers. Fee 50¢ for each gun. Also requiring permit to purchase, same fee. Complete discretion granted licensing board to grant, refuse or revoke. *Action:* Hearing on January 28th. Referred back to sponsors for further study.

California: Assembly Bill 210, by Assemblyman Thomas M. Edwin of 1136 Willow Avenue, Puento. Makes it a misdemeanor to possess a loaded rifle or shotgun in a vehicle on a public highway. To Committee on Judiciary. *Action:* None.

Assembly Bill 306, by Assemblyman Rumford of Berkeley would require fingerprinting on Criminal Identification Cards of all applicants for pistol licenses and clearance through State Bureau of Criminal Identification. To Committee on Crime and Correction. *Action:* None.

Assembly Bill 414, by Assemblyman Stewart of Pasadena makes it a misdemeanor to shoot or otherwise project any dangerous missile at an occupied building. To Committee on Judiciary. *Action:* None.

Assembly Bill 1235, by Assemblyman Rumford of Berkeley would require registration of all pistols and revolvers and make it necessary to obtain police permits to retain such guns, also police permits to purchase. Police could at their discretion revoke permits and force disposition of any gun even though they had originally granted permit to purchase. To Committee on Judiciary. *Action:* None.

Colorado: House Bill 1054, by Representative Radetsky of Denver. Introduced by title only. To Committee on State Affairs and Reapportionment. *Action:* None.

Connecticut: Senate Bill 184, by Senator Frank J. Monchun of Windsor. Prohibits carrying loaded gun in vehicle. Referred to Fish and Game Committee. *Action:* None.

Idaho: Senate Bill 31, by Fish and Game Committee. Makes it a misdemeanor to handle or use a firearm in a reckless or careless manner. *Action:* Passed third reading in Senate.

Maryland: Senate Bill 187, by Senator Barton of Baltimore. Relates to granting of licenses to carry weapons. Referred to Committee on Judicial Proceedings. *Action:*

(Continued on page 40)

MAKING YOUR OWN BULLETS

Continued from page 17

then tightening it again. We have heard that RCBS dies will be made with this vented feature.

The Banta dies are so new that we have had only one opportunity to make a few bullets and try them in a .22-250 rifle, which had been giving exceptionally fine results with 55-grain bullets made in the RCBS dies. We were using new unheaded .22 rim-fire cases which had been cadmium-plated at a local plating shop. The cases were .705 inch long and the bullets were formed with just enough pressure so that the bases were flat, but showing a slight radius around the edge. We did not swage them enough to cause fins or an extremely sharp base edge. This system left a small cavity or hollow point instead of having a lead tip exposed.

We set up the new Banta dies to duplicate these bullets as nearly are possible. They had, on several occasions, made 10-shot one to 1⅛-inch groups at 200 yards. A total of fifty-five bullets were made for the first experiment. Half of them had the lead cores swaged in the jackets using the RCBS core swage. Cores in the remaining cases were forced to the bottom of the cups using a mallet and close-fitting punch inside the jacket. We tried two different powder charges with Banta-made bullets of 50, 55 and 60 grains weight. Five of these bullets were reversed in the swage, making them full patch at the point. These were no good. Of the other fifty, only four enlarged the 5-shot 100-yard groups to 1 inch or slightly more. One group was under ½ inch and most of the other groups were ¾ inch or under. This shooting was done while wearing heavy woolen gloves in 20-degree weather. Most of the groups showed a tendency for many of the bullets to group in one ragged hole. This test was made with bullets just as they came from the swages. They were not checked for imperfections and none of this first lot made were discarded as imperfect. Such tests surely indicate the quality and accuracy of the dies which are now available.

Experienced bench-rest shooters who are getting exceptionally small groups prefer to make their own bullets so that they can control all the minute details necessary to make precision loads exactly right for each individual rifle. For instance, one opinion is that the hollow-point bullets in .22 caliber are frequently more accurate than are those having lead exposed at the point. To get the hollow point the copper-alloy cups of .735-inch length are used for bullets weighing 55 grains. For our .25-caliber RCBS bullets we use copper cups .92 inch long. The finished bullets weighing 95 grains have no lead exposed. The same cups for bullets weighing 105 grains give a nice small tip of lead exposed. They are quite accurate.

A very small amount of lubricant is usually used on the bullet jackets before swaging or resizing. Special lubricant is supplied for the Gibbs dies and pure lanolin is suggested when using the Banta. We were frequently warned against lubricants or graphite when using RCBS dies. For all the .25-caliber bullets and most of the .22's which have not been cadmium-plated, however, we use a good quality of lubricant very sparingly. Lubricant is not needed with the cadmium-plated jackets.

So far no definite conclusion has been reached as to whether or not the plated jackets make better bullets. They do seem to give better accuracy in several of our good rifles when we do not use graphite wads

As to prices: the RCBS dies retail at $32.50 in .22 caliber and $40 for the .25-caliber set. The lead cutter is $6, and core swage, $10.

The Banta dies in .22 and .25 caliber are $40 for a complete set. The core seater is $4, and the lead cutter $5.

The Gibbs dies are made in .30 and 8-mm calibers. Both .263 (6.5 mm.) and .257 dies will be available soon. A complete set includes press, dies, mold with handles, forming oil and sizing paste. Price is $85. Bullet weight and nose shape must be specified when selecting these dies.

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HOUSE APPROPRIATIONS COMMITTEE (See page 10)

Write to your Congressman NOW! Ask him to contact the members of the House Appropriations Committee, urging them to increase the appropriation for the National Board for the Promotion of Rifle Practice, as discussed in the editorial, page 10, this issue. If one of these committee members happens to be your own Congressman, it is even more important that you express your opinions to him. Here is the roster of the House Appropriations Committee. Address them at the House Office Building, Washington, D. C. (Names in heavy type are those of the five members of the subcommittee on Army Appropriations, which is handling the appropriations for the National Board for the Promotion of Rifle Practice.

Clarence Cannon, Missouri, Chairman
John H. Kerr, North Carolina
George H. Mahon, Texas
Harry R. Sheppard, California
Albert Thomas, Texas
Michael J. Kirwan, Ohio
W. F. Norrell, Arkansas
Albert Gore, Tennessee
Jamie L. Whitten, Mississippi
George W. Andrews, Alabama
John J. Rooney, New York
J. Vaughn Gary, Virginia
Joe B. Bates, Kentucky
John E. Fogarty, Rhode Island
Henry M. Jackson, Washington
Robert L. F. Sikes, Florida
Antonio M. Fernandez, New Mexico
William C. Stigler, Oklahoma
E. H. Hedrick, West Virginia
Prince H. Preston, Jr., Georgia
Otto E. Passman, Louisiana
Louis C. Rabaut, Michigan
Daniel J. Flood, Pennsylvania
Christopher C. McGrath, New York
Sidney R. Yates, Illinois
Foster Furcolo, Massachusetts
Edward H. Kruse, Jr., Indiana
John Taber, New York
Richard B. Wigglesworth, Massachusetts
Charles A. Plumley, Vermont
Albert J. Engel, Michigan
Karl Stefan, Nebraska
Francis Case, South Dakota
Frank B. Keefe, Wisconsin
Ben F. Jensen, Iowa
H. Carl Andersen, Minnesota
Walt Horan, Washington
Gordon Canfield, New Jersey
Ivor D. Fenton, Pennsylvania
Ralph E. Church, Illinois
Lowell Stockman, Oregon
John Phillips, California
Errett P. Scrivner, Kansas
Frederic R. Coudert, Jr., New York
Cliff Clevenger, Ohio

Remington's New M-48

THE CLEAN LINES AND FUNCTIONAL STREAMLINING OF THE NEW REMINGTON AUTO MAY HERALD A NEW ERA IN SPORTING ARMS DESIGN

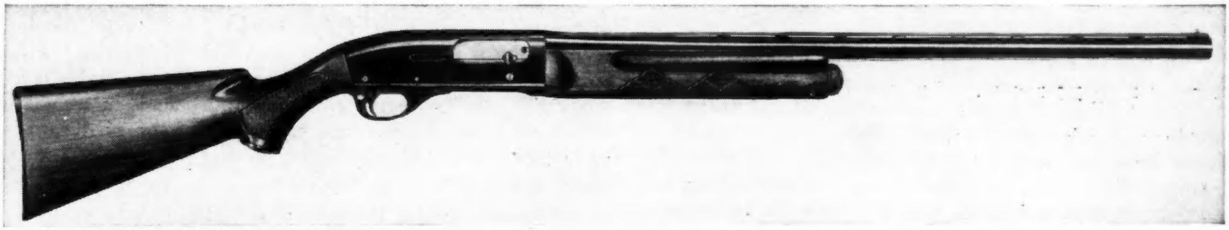
A lot of shotgun users don't like semiautomatics. Unsportsmanlike, they say . . . meanwhile ignoring the fact that sportsmanship or the lack of it is a matter of the man behind the gun and not of the gun itself. Even in fields where sportsmanship, as far as bag limits and game hogging are concerned, is nonexistent there are die-hard skeet and trap shooters who still shy away from the semiauto in favor of pump or double. To a lot of them the ungainly outline of the usual semiauto has probably been a strike against it. The sharp abutment on the rear of the receiver, making the old semiautomatic one of the ugliest of guns, looks like it was planned to offend the feelings of a true gun lover.

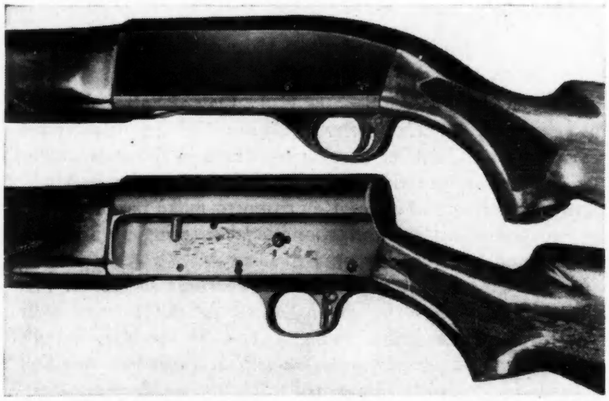
In designing their new Sportsman A '48 and the Model 11A '48, Remington has given these semiautomatic shotguns a new look—modern and streamlined, very much like a trim pump action. The Sportsman '48 with standard stock and 26-inch barrel which we have been putting through its paces fits me to perfection, as well as looking more like a gun then its predecessors.

The feel of the new gun is pleasing and it handles with natural ease. I tried it at skeet and in the brush on quail with the improved cylinder barrel. During a three-day duck trip it was with me in the blind. For this occasion the improved cylinder barrel was exchanged for a full-choked one. True, the gun failed to eject several times when it was first assembled. This was remedied by wiping the outside of the magazine tube with a lightly oiled cloth. Since then it has failed to eject only once. However, the reason for that early failure was not traceable to faulty design. Some grit was inadvertently spilled on the slide while I was showing some friends how to adjust for light or heavy loads by reversing the constriction ring on the magazine tube.

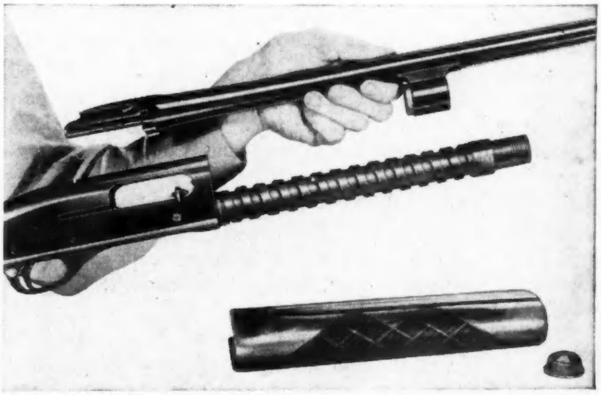
Remington's new automatic is a beautiful example of a new era in sporting-arms design—an era ushered in by research with modern research equipment. In order to compare the old with the new we disassembled a Browning semiautomatic and laid the parts out besides those of the Sportsman '48. As shown in the photo on the next page, the new gun is simpler, has fewer parts and is generally a cleaner, more modern-looking production than the older Remington mechanism. This is evidence that the Remington research division has been busy since the war. Whether they have developed a more durable and better-functioning gun than the old design remains to be seen. It is certainly lighter and, for my part, better-looking and nicer handling.

Another thing which they have accomplished is a much easier gun to manufacture. The outside of the receiver is smooth and trim without a lot of milled surfaces. It looks modern. Instead of fitting a number of small parts into intricately milled cuts on the inside of the receiver, most of them are fitted to and come out with the trigger group. A number of mechanism parts which formerly required costly milling are replaced with stampings. This does not detract from the value of the gun as long as they work, which they apparently do, and providing they hold up. Remington is equipped to analyze stresses in parts and can watch them in action with

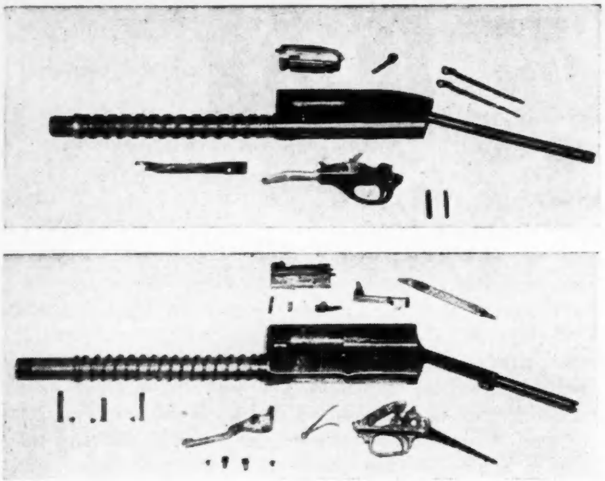




Compared with a conventional semiautomatic, the new Remington M-48 (above) presents a smooth outline without the ugly hump of previous models



The new gun takes down easily. Flat ring at end of spring may be adjusted for light or heavy loads. At top, the new gun, complete with ventilated rib



Remington's new gun (at top) breaks down into fewer parts than older semiauto mechanisms. Parts are streamlined for ease of manufacture

high speed movies, so they should know about what is to be expected of each part. Use of their greatly expanded research facilities have no doubt been a big factor in making this gun possible. The only disappointing thing about the new gun is that the design has not resulted in a great reduction in price.

We tried the Sportsman '48 for pattern. The results by no means furnish the whole pattern story. Only three patterns were fired with Remington and Peters ammunition to arrive at each percentage figure. All patterns were fired at 40 yards and the count taken in a 30-inch circle. In order to determine the best patterning for your own gun it is always necessary to try different loads and lots of ammunition. However, these figures do give some indication, tentative though it may be, of what one gun did with these particular loads.

The full-choke barrel gave a 65-percent pattern with 7½'s in a 3¾-ounce, 1¼-dram load. Number six's shot in a similar loading scored 60 percent, and number fours showed a pattern increase by going to 70.5 percent. In the improved cylinder barrel, eights in a three-ounce, 1⅛-dram load showed 32 percent of the pellets in a 30-inch circle. A 3¼-ounce, 1¼-dram load of 7½ shot gave a 31 percent pattern, and number four shot in the 3¾-ounce, 1¼-dram load gave a 42 percent figure.

Here are the 'vital statistics' on Remington's new model 48 shotguns: Shell capacity of the Sportsman A is three rounds; that of the 11A, five rounds. Cylinder, modified, full and Remington Special skeet borings are available in both models. Standard stock dimensions of both give 2½-inch drop at heel, 1⅝-inch at comb and length—14 inches. Weight in both models is 7¼ pounds in 12 gauge, 6½ pounds in 16 and 6¼ in 20 gauge. Prices, which are the same for both models in comparable grades, are a few cents under a hundred dollars for the standard, $111.45 in special grade, $274 in tournament grade, and $564 for the slicked-up premier grade. Extra barrels list at $38.30 each, ventilated rib at $20 extra, and matted rib, another $4.—EDWARDS BROWN, JR. ◆ ◆ ◆

LEGISLATIVE BOX-SCORE

(Continued from page 37)

None.

House Bill 213, by Delegate Carroll C. Smith of Hampstead. Makes it unlawful to discharge firearms within a municipality. Referred to Committee on Judicial Proceedings. *Action:* Killed in Committee.

Massachusetts: House Bill 1159, by Representative William P. Wall of Lawrence. Prohibits furnishing firearms to minors under 18, except military arms for instruction and drill. Referred to Military Affairs and Public Safety Committee. *Action:* None.

House Bill 1795, by Representative Christian F. Denneson, address unknown. Prohibits sale of firearms or ammunition to minors. Referred to Military Affairs Committee. *Action:* None.

Michigan: House Bill 53, by Representatives Chester Leivandowski, Joseph G. O'Connor, Edgar Currie, Detroit, and Earl Hebert, of Ecorse. Increases fee for license to sell, purchase, possess and carry firearms from present $1.00 to $1.50. Referred to Committee on Towns and Country. *Action:* None.

New York: Assembly Bill 696, by Assemblyman Robert Walmsly of Upper Nyack. Provides that photographs, fingerprints and character references are necessary only on original application for license to sell firearms. Referred to Committee on Codes. *Action:* None.

Senate Bill 880, by Senator Panken of New York City. Requires purchaser of ammunition to hold license for firearms concerned. Referred to Committee on Codes. *Action:* None.

Senate Bill 881, by Senator Panken of New York City makes it a misdemeanor to furnish ammunition to a person under 16 years of age. Referred to Committee on Codes. *Action:* None.

North Dakota: House Bill 52, entered on request of State Highway Commission and Public Service Commission. Would require special marking and equipment of all vehicles transporting explosives. *Action:* Committee amendment makes law applicable only to "cargos exceeding 100 pounds in weight" and specifically exempts "the transportation of small arms and ammunition." Passed House January 31.

Ohio: House Bill 11, by Representative George B. Marshall of Columbus. Makes it unlawful to shoot at wild game or birds on public roads or within 500 feet of dwellings unless occupants of dwelling have given permission. Referred to Committee on Judiciary. *Action:* Hearing held February 1; result not yet known.

Utah: Senate Bill 65, by Senator E. L. Day of Salt Lake City and Senator J. Francis Fowles of Ogden. Makes it unlawful to discharge a .22-caliber firearm anywhere in the state except on a "regular target rifle range." Referred to the Fish and Game Committee. *Action:* Rewritten to make parents liable for damages caused by careless or illegal shooting by juveniles and reported on favorably on February 2. ◆ ◆ ◆

In future issues, the Rifleman will continue to present this 'legislative box score' of developments in the various state legislatures. In addition, and as a part of the Association's service to gun owners, information will be rushed to members by letter in any state threatened with unwise firearms legislation.

THE OLD COACH'S PAGE

There is so much concern expressed in print and firing-line talk about trigger pull and sight alignment that the inexperienced match shooter may be inclined to place too much emphasis upon either phase of technique. Each is related to the other and both are related to the final score, and the shooter must understand those relations if he is to hit what he aims at.

GUN CONTROL AND SHOOTING FORM

No rifleman, regardless of how much experience he may have had, can pull the trigger with a jerk and be able to tell where the shot will strike. Jerking the trigger spoils the shot because the shooter transfers his mental concentration from the sight alignment to the trigger pull. The actual performance is somewhat as follows: The shooter exerts every effort in holding and sighting his piece, and at the crucial moment, when the aim is perfect, his brain receives an order to release the trigger before the sights can move. This may sound good, but practically it is all wrong.

The shooter who jerks his trigger can never call his shot, for he does not know where the gun was pointed at the time of discharge. Being able to call the shot is the proof of proper shooting form, and until a shooter can say without hesitation where his gun was aimed at the time of discharge, he is wasting time practicing and acquiring a very bad habit. The actual release of the shot in the proper way comes as a complete surprise to many experts and to all novices. In other words, the shooter should never know exactly when the gun will fire, for then there is no tendency to jerk the trigger.

Trigger squeeze should be controlled by the subconscious mind, as when you shift the gears in your car. The gears somehow become shifted, though you are seldom conscious of doing it. Another instance is the releasing of the tang safety on a shotgun. An experienced shotgun man will release his safety in order to shoot at a flushed bird, and may wonder after the excitement how or when he touched the safety. The same subconscious mind should operate the trigger squeeze, the conscious mind being concerned with aiming and holding, which gives it all it can do.

A fellow shooter of mine who is an exceptionally fine prone shot has a rifle which, when shooting a certain brand of ammunition, will begin a string of shots in the X-ring. However, if the string is completed without further attention to the sights, the group will run into the 9-ring about halfway between the 9 and 10 lines at 11 o'clock. It requires a change to right wind around the fifth or sixth shot and a lowering of elevation as the shots begin to rise to keep the group in the 10-ring. Many groups measuring 1⅛ inches, a few as small as 1 inch, have been shot by this rifleman with the same combination of gun and ammunition. They show the importance of being able to call one's shots correctly.

Several seasons ago I was coaching a rifle club whose shooting consisted of the usual shoulder-to-shoulder four-position matches. I realized that poor form was responsible for the erratic and inconsistent scores, though the members of the club had been shooting for about five years. With the exception of one or two out of a membership of thirty active shooters, no one could call his shots. My job was to assemble a five-man team from among the men who could shoot good and consistent scores. The time in which to accomplish this was so short that it was impossible to give personal attention to each shooter before the matches booked with other clubs were scheduled to start. It is not an easy matter for a rifleman to forget the form he has been using for five years and begin over again in a different way, however it can be done if he really wishes to become a better shot. The method I employed proved to be quick and positive as to results.

On practice nights, twice a week, four men were placed at assigned positions, one at each firing port, and directions were given to shoot in the kneeling position. Another set of four men were chosen to score for the men at the ports. By this arrangement each shooter had a scorer of his own directly behind him. Each of the four men scoring was given a spotting scope and a duplicate 75-foot target. Iron sights were used. After firing a shot the shooter called to his spotter the position (as he thought) of his shot hole on the target. The scorer in turn registered with green crayon exactly where the shot actually hit on the target, and marked in red crayon where the shot was called by the shooter. The scorer also marked the shots numerically. High score for the night was decided by the best calling of shots, rather than by the actual score. The kneeling position was chosen for two reasons: First, the club was weak in this position; and second, it gave the shooter a better chance to call his shots because of the greater variation in holding. The tight groups usually found in prone and sitting positions make it difficult to call shots, and mistakes are much more apt to occur in scoring the keyholed groups.

At the beginning of practice it was easy to see that the subconscious mind was being used by the men for the final stage of sight corrections. Doubt as to where the sights were aligned at discharge made it necessary to call the shot where the conscious mind last recorded the picture seen by the eye, before the conscious mind was switched to trigger control. Some shots were called as much as 2 inches away from where they actually hit on the 75-foot target. After two or three nights of this, discouragement began to run through the club, for the men realized that they were wasting ammunition and effort. I knew that matters would either remain as they were or that calling would greatly improve, for there is no happy medium—either the shots are called right or they are called wrong.

At the next practice the first real improvement was evident, one man calling all his shots for the evening with a maximum error of about ½ inch. Interest took the place of discouragement, and in short order the club was calling the shots in good fashion, and the battle was won. I continued on off nights to hold these practices, but found that the men had become convinced, by better scores, that they must call each and every shot they fired.

The rifleman who trains himself to concentrate upon the sighting of his arm to the exclusion of all else will soon find that he has made real progress toward proper form. Call your shot, have confidence in yourself and your equipment, concentrate upon the sights, and good scores will be the natural result.

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THE SPOTTING SCOPE -- March 1949

Activity is brisk on the legislative front, as expected. . . . With some forty-five state legislatures scheduled to meet in 1949, bills of interest (or concern) to shooters have been introduced in thirteen so far . . . and NRA's Legislative Service, in addition to bulletin mailings to members, now starts a monthly legislative roundup in The Rifleman (see page 37). . . . The American Weekly, whose anti-gun blast last fall roused a storm of protest from shooters, relented February 13 and carried two columns of quotations from complainants telling the other side of the story. . . . Shooters who wonder at the apathy of some U. S. officials toward a broad civilian shooting program similar to that in Russia, Switzerland, et al., might be interested to know that under the National Defense Act of 1916 Congress provided the necessary authority for a program of Government assistance in the marksmanship training of U. S. civilians. . . . It's just that the authority is not backed up with the cash.

Denver is the 1949 NRA Convention city . . . so make your plans early for October. . . . National Skeet Shooting Association, nurtured back to health with NRA assistance since the war, is trying its own wings again . . . has already moved headquarters and staff to Dallas where plans are under way for a permanent home. . . . The Central Texas Rifle and Pistol Club, at Waco, has named its range "The Whitaker Range" in memory of NRA fieldman Ray Whitaker and his wife, Betty killed recently in an air crash. . . . Remington's R. H. Coleman has been named to fill General Sales Manager vacancy created by death of Bernard Strader in January . . . with Dewey Godfrey, Remington's well-known Western Regional Manager, coming in to fill Coleman's Assistant Sales Manager spot. . . . Col. Bill Whaling, U. S. Marine hero, last seen by shooters as Executive Officer at Camp Perry in 1947, has been promoted to Brigadier General.

Readers of "What's Happening to America's Sports Bill" in a national Sunday newspaper supplement February 6, who were surprised to find that shooters are the second largest group of sports spenders in the country ($750,000,000 annually) would not have been surprised had they first read the chapter in Frank Menke's "Encyclopedia of Sports" which estimates spending between 1938 and 1941 . . . and shows that target shooters alone spend enough per year to buy every professional baseball club in the U. S., and all the players, all the race tracks and all the horses . . . and that all outdoorsmen together (shooters and fishermen) spend enough to buy and sell almost all other sports combined. . . . NRA is urging promotion-minded shooting clubs to take advantage of the Columbia Pictures-Bill Stern movie short "Trigger Magic", now in the hands of distributors, by coordinating a club membership drive with local showings.

The Parks and Recreation Division of the Michigan Conservation Department, which last year serviced 1,200 hunters in a month's operation of its new "sighting-in" range near Pontiac Lake, is so elated it plans to open other ranges throughout the State. . . . FBI Law Enforcement Bulletin reports that juvenile crimes in little Sapulpa, Oklahoma (population: 12,242) have been reduced about 90 percent since Police Chief J. O. Edwards and the Kiwanis Club organized The Junior Police Force in 1946 . . . a program which includes weekly practice for boys on the rifle range. . . . Night shoots, like night baseball, is on the increase . . . with most clubs reporting a rebirth of competitive interest as a result. . . . Simply explained, there's more time and conviviality after the sun goes down. . . . Add friends of shooters: Tom Van De Car with his fine program "The Outdoorsman" over radio station KWHK in Hutchinson, Kansas, and Editor Fred J. Naff, of the Newport News, Va., Daily Press. . . . Pilot of the first faster-than-sound plane who shared the Collier Trophy with NRA member John Stack, aeronautical research scientist, was Captain Charles Yeager . . . also an NRA member and gun nut.

Ray Stamm

Twenty-Two Tournaments Make Up 1949 Regional Championships

Eleven rifle and eleven pistol tournaments will make up this year's regional program. The locations were approved by the NRA Executive Committee during its February meeting. The twenty-two events represent an increase of five over last year. Four of the five added tournaments are west of the Mississippi River and were put into the program to cut down traveling distances heretofore demanded of western shooters.

In effect, two regions have been added to the program for western shooters. One of the new regions will service shooters in the Dakotas, Montana and Idaho, with a pistol and rifle tournament, and the other will take care of Arizona, New Mexico and West Texas with two tournaments. The new western shooting sites are at Anaconda, Montana (rifle and pistol), Phoenix, Arizona (rifle), and Prescott, Arizona (pistol). The fifth new regional championship shoot, for pistol, will be fired at Flint, Michigan.

The seventeen other tournaments will be held in the same general area as last year. A complete location listing of all 1949 regionals will be found below except for the Southern Pacific Coast rifle shoot. This Tournament will be held either at Fresno or Los Angeles. More information is being sought as to the shooters preference and a further investigation of range facilities is being made. The final site will be announced next month.

Firing dates for the twenty-two regional championships will be announced in the April RIFLEMAN along with the decision about Fresno and Los Angeles.

During its winter meeting the Executive Board of the NRA also authorized the Association's National Headquarters to spend $13,500 for prizes. Duplicate prizes will be furnished to all regional championships for distribution among the winners.

Regional championship locations are: *Northeastern:* Conn. State R&P Ass'n, Middlefield, Conn. (rifle), Dutchess County Pistol Ass'n, Poughkeepsie, New York (pistol); *Middle Atlantic:* Central Penna. Rifle Club, Harrisburg, Pa. (rifle), U. S. Marine Corps, Quantico, Virginia (pistol); *Southeastern:* Chattanooga R&P Club, Chattanooga, Tenn. (rifle), Jacksonville Police Pistol Club, Jacksonville, Fla. (pistol); *North Central:* St. Joseph Valley R&P Ass'n, Bristol, Ind. (rifle), Flint R&P Club, Flint, Michigan (pistol); *Midwestern:* Des Moines R&P Club, Des Moines, Iowa (rifle), Scott County Spts. Ass'n, Davenport, Iowa (pistol); *Northwestern:* Anaconda R&P Club, Anaconda, Mont. (rifle), Anaconda R&P Club, Anaconda, Mont. (pistol); *Rocky Mountain:* So. Platte Chapter, Isaac Walton League, Denver, Colo. (rifle), So. Platte Chapter, Isaac Walton League, Denver, Colo. (pistol); *Southwestern:* Central Texas R&P Club, Waco, Texas (rifle), Dallas Pistol and Revolver Club, Dallas, Texas (pistol); *Far Southwestern:* Phoenix Rod & Gun Club, Phoenix, Ariz. (rifle), States Pistol Ass'n of Arizona, Prescott, Ariz. (pistol); *North Pacific:* Portland Rifle Club, Portland, Ore. (rifle), Washington State Rifle Ass'n, Seattle, Wash. (pistol); *South Pacific:* Fresno R&P Club, Fresno, Calif., or Los Angeles Rifle and Revolver Club (rifle), Calif. Highway Patrol Pistol Club, Bakersfield, Calif. (pistol).

CONVENTION SPEECHES AVAILABLE

Members desiring to obtain printed copies of the various speeches presented at general sessions and the special panels conducted during the First NRA Convention last October may order them now from NRA Headquarters. The speeches are available in complete sets. Enclose 50¢ to cover the cost of printing and mailing.

JUNIOR CHAMPIONSHIPS

The 1949 National Junior Rifle Championships will be fired on Saturday, March 19. Staged on a shoulder-to-shoulder basis an estimated 2500 junior riflemen will compete this year for the national team and individual crowns in over 40 localities throughout the country.

Over 50 NRA trophies and more than a thousand medals, plus additional awards by local sponsors, will help to make the 1949 junior shoot not only the largest but the most colorful ever held for NRA youngsters.

Sectional tournaments will be conducted in the following locations from which all scores will be mailed to NRA Headquarters for national ranking:

Phoenix and Tucson, Ariz.; Los Angeles, Calif.; Denver, Colo.; Napa, Idaho; Evanston, Ill.; New Albany and Indianapolis, Ind.; New Orleans, La.; College Park, Maryland; Lowell, Mass.; Ann Arbor, Mich.; Minneapolis, Minn.; Jackson, Miss.; Nevada and St. Louis, Mo.; Bozeman, Mont.; New Brunswick, N. J.; New York City, Sidney, Wellsville, Snyder and Long Island, N. Y.; Willoughby, Ohio; Tulsa, Okla.; Hillsboro, Ore.; Oakmont and Philadelphia, Penn.; Pierre, S. D.; Nashville, Tenn.; El Paso, Tex.; Salt Lake City, Utah; Northfield, Vt.; and Tacoma and Spokane, Wash.

A few tournaments are scheduled for firing on March 12. The locations are Balboa, Canal Zone; New Haven, Conn.; Davenport, Ia.; and Arlington, Tex.

Although arrangements are not yet complete, additional tournaments will probably be conducted at Honolulu, Hawaii; San Francisco, Calif.; Albany, N. Y.; Cincinnati, Ohio; Houston, Tex.; and Milwaukee, Wis.

JUNIOR POSTAL MATCHES

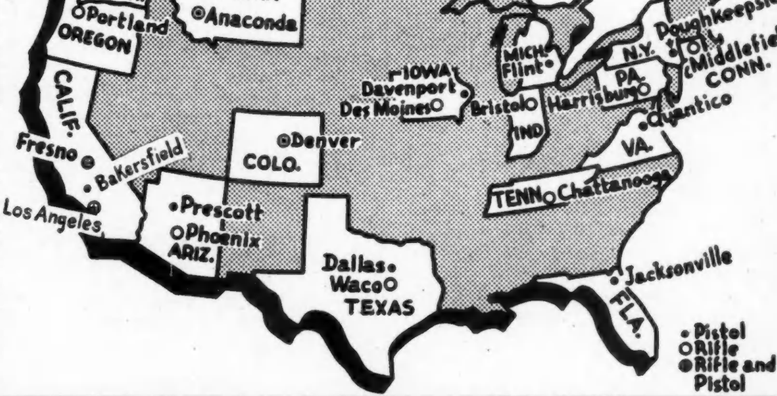
Results of the first of four monthly postal team matches show the Arlington (Virginia) Rim-Fire Junior Rifle Club and the Grover Cleveland High School teams sharing the lead in the Open Division—prone and standing—with scores of 921. Close on their heels is the Brooklyn Technical High School team trailing by one point.

In the other divisions, where all firing is in the prone position, Xavier High School, of New York City, leads the military schools with 495, followed by Cretin High School, of St. Paul, Minn., with 491 and the Cadet Junior Rifle Club of Xenia, Ohio, with 490. Munhall (Pennsylvania) High School tops the non-military schools with 499. Upper Darby High, of Philadelphia, Pa., and the Grover Cleveland High teams share second place with 496 each.

First place among non-scholastic teams belongs to the juniors of the Detroit Edison Rifle and Revolver Club with 496. Three teams are deadlocked for second place at 493. They are the Akron, Ohio Sharpshooters, Arlington Rim-Fire and Metropolitan Rod and Gun Club (New York City).

Top honors in the "Cub" division—all team members under 15 years of age—are now held by the Glendale VFW Post 3075, of Seattle, Wash., with 492. The Clymer (Pennsylvania) High School team is second with 485 and the Polo (Illinois) Community High School third with 481.

The Mansfield YMCA Junior Rifle Club of Ohio holds the lead in the girls' division with 493. They are closely pursued by girls from two Pennsylvania high school clubs, Munhall and Oakmont, one point behind.



Map shows the 22 sites on which the 1949 Regional Championships will be fired. Fresno and Los Angeles are shown with crossed circles as the final choice between the two cities has not yet been made for Southern Pacific rifle. See story for details

Clubs and COMPETITORS

Tournament shooters and club officers should note the new NRA committee members listed in the staff box on this page. Your problems and suggestions can often best be handled by passing them along to an appropriate committeeman.

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Burbank (Calif.) shooters can count on real backing from their city government. City Manager Howard I. Stites, a recent visitor to NRA Headquarters, is an enthusiastic shooter, NRA club member and father of several sharpshooting daughters.

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Any shooter having information regarding the present whereabouts of the Ed. Smelter Memorial Trophy is requested to contact Mr. George W. Gerlach, 801 Seventh Avenue, New York City. The trophy was placed in competition within the Westchester Rifle League in 1938 but has been missing since 1941.

☆ ☆ ☆

N.Y. City and North Jersey shooters note—Charles Muller, range master of the Schuetzen Park Rifle and Pistol Range, Hudson Boulevard and 32nd Street, North Bergen, N. J., says each Friday night the range is open to individual firing—just 10 minutes from Times Square, too.

☆ ☆ ☆

Letters reaching NRA Headquarters indicate a widespread interest in the Association's efforts to make special provisions for physically handicapped shooters. As a refresher—turn back to page 53 of the 1948 October RIFLEMAN for information about the procedure which must be followed to obtain official authorization for special aids or unorthodox positions.

☆ ☆ ☆

Post-Convention Note—It's always good to receive letters like the one sent NRA Headquarters by Alfred K. Friedrich of the Oakland, California Rifle Club. Frederich states, "After 23 years I was getting tired, and I had expected to conclude my junior activities at the close of the year, but after reading of the need for junior riflemen as emphasized at the National Convention, I decided to continue a while longer."

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Much progress is expected during 1949 in .30-caliber rifle firing. Some state associations have already started contacting clubs with .30-caliber range facilities in an effort to arrange a series of local tournaments leading up to .30-caliber state championships.

The NRA will work with state associations or local clubs and will register .30-caliber tournaments that meet reasonable standards. For such tournaments, an official referee will be provided without cost to the sponsoring group and national records will be kept. Thousands of NRA members have purchased .30-caliber rifles and want tournaments to shoot.

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Annual reports of firing for NRA qualification awards are coming in fast from affiliated clubs. According to reports, there will be more club members receiving NRA qualification awards during 1948 than in previous years. Clubs are fast recognizing the importance in furnishing members an active program of shooting and the establishment of regular NRA qualification matches goes a long way toward holding the interest of every club member. New members want to win their first award and older shooters want to advance to higher grades.

A new NRA qualification poster and a colorful folder are being printed and will be mailed soon to all affiliated clubs. They have pictures of awards and a complete list of requirements to be followed in firing qualifications.

Free club qualification certificates are available to all NRA clubs in which 50% or more of its membership have received NRA awards during 1948. Clubs that have not mailed these reports should do so as soon as possible.

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The 1948 registered tournament season far surpassed all previous years with a record total of 495 tournaments. The number represented an increase of 126 tournaments over 1947 and 209 over 1946. Indications are that the 1949 season will be even greater. All previous sponsors of registered tournaments and all club secretaries have been forwarded applications for registered tournament dates to be listed in the forthcoming "Outdoor Registered Tournament Schedule" which will be published on or about April 1, 1949. A great amount of the preparatory work has been accomplished on the schedule, and it is now possible to announce that the closing date for applications has been moved back from March 1 to March 7. Tournament sponsors who want to reserve dates should do so immediately so the tournament can be listed. The Coming Events column of the RIFLEMAN will not carry class C registered tournaments after the publication date of the schedule.

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Junior riflemen in the midwest should note the 14th annual firing of the Indoor Camp Perry Rifle Meet scheduled for March 4 and 5 at Kemper Military School, Boonville, Missouri. A big junior shooting event since its inception in 1930 the Kemper match calls for two days of firing, followed by an All-School Ball on Saturday night with all contestants as guests of the Kemper cadets. Teams interested contact the PMS&T at Kemper.

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During the month of January the following young riflemen reached the highest pinnacle in the NRA junior series of qualification ratings: Jonathan Wainhouse, Washington, D. C.; Tom Oda, Wailuku, Maui, Hawaii; Louise Garrin, Bethesda, Md.; Fred Wilkesmann, Prospect Park, N. J.; Allen Newhouse, Cincinnati, Ohio; Hugh MacDonald, Brooklyn, N. Y.; Ann Schumaker, Trenton, Mich.; Kenneth Erdman, Jeffersonville, Ind.; Louis Caldararo, Brooklyn, N. Y.; Thomas Tully, Springfield, N. Y.; Robert E. Fecke, Dayton, Ohio.

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The new Eastern Seaboard Indoor Pistol Champion is **Fred E. Hudson**, of New Haven, Conn. He won the crown in New York City on January 29th and 30th, when he fired a 1165 out of a possible 1200 points. **Mark Walsh**, New York City police, was runner-up at 1161, as **John Layton**, Washington, D. C., anchored the first three with 1157. Hudson also set a national record in the meet. He punched home a 295 with the .38-caliber revolver over the National Match Course to top by eight points the previous high standard set by F. M. O'Connor in Kansas City, Mo., in 1940. The New York City Pistol Team took all four of the team matches.

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Richard M. Pagh, Anacortes, Wash., had two winning Sundays in a row recently when he won his home club's (Anacortes Rifle) Second Annual Gallery Rifle Tournament on January 16th, and then followed it up with another victory on January 23rd, in Seattle, by taking the Teamsters Rod and Gun Club's annual gallery shoot. At home he totaled 957 points out of a possible 1000 and garnered 764 out of 800 in the big city. **Ransford Wise**, Bellingham, Wash., placed second to the double winner on the 16th, with 949, followed by **James Furgeson**, Anacortes. **Dwain Colby** and **Jack Lohrer**, both of Seattle, placed two and three on the 23rd.

☆ ☆ ☆

The First Annual Gallery Rifle Tourna-

NATIONAL RIFLE ASSOCIATION:

Headquarters Staff

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C. B. LISTER................*Executive Director*
LOUIS LUCAS..*Treasurer and Business Manager*
L. Q. BRADLEY.*Asst. Treasurer and Memberships*
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JOHN SCOFIELD...........*American Rifleman*
J. A. HARPER
E. M. CHASE..........................*Cashier*

Field Representatives

Midwestern.............Dow Smith
Orpheum Theatre Bldg.
Elkhart, Indiana
Far Southwestern........Lee Echols
Medico-Dental Bldg., Room 101
3rd and A Streets
San Diego, Calif.
Northeastern............E. F. Bridgman
116 Elm Street
West Springfield, Mass.

Competitions Committees

High Power

Maj. Gen. M. A. Edson, USMC	Montpelier, Vt.
Maj. Gen. K. L. Berry	Austin, Texas
Russell I. Wisler	San Francisco, Calif.
David Sugden	Salt Lake City, Utah
Col. J. F. Strain	Washington, D. C.
Frank T. Parsons	Washington, D. C.
Fred M. Molt	Ashville, N. C.
Thurman Randle	Dallas, Texas
Robert L. Kirk	Portland, Oreg.
Comdr. Carl E. Bull, USN	Newport, R. I.
Comdr. L. H. Morine, USCG	Washington, D. C.
Lt. Col. Glenn Funk, USMC	Washington, D. C.
Thomas M. Blakemore	Chicago, Ill.

Pistol and Revolver

Carl Kastner	Maplewood, N. J.
John M. Schooley	Denver, Colo.
Lt. Col. Walter R. Walsh	Arlington, Va.
Arnold Meloche	Phoenix, Ariz.
H. L. Remmel	Little Rock, Ark.
Marvin Driver	Detroit, Mich.
Emile Dutil	San Francisco, Calif.
C. A. Brown	Tampa, Fla.
Charles Code	Hollidaysburg, Pa.
Col. C. F. Densford	Park Ridge, Ill.
Malcolm B. Edwards	South Bend, Wash.
Frank Stubits	St. Louis, Mo.
Lt. Alvin Strand	Los Angeles, Calif.

ment, sponsored by the Oyster River Rifle and Pistol Club, or Durham, N. H., was fired on January 22nd and 23rd, on the University of New Hampshire rifle range. **Albert E. Auger,** of the home club, took the aggregate with a score of 749 out of a possible 800 points. **John Hollar,** of the Fellows Gear Shaper Rifle Club, Springfield, Vt., finished second with 747, as **Creighton Audette** placed third. Auger compiled his score by shooting 375 with iron sights and 374 with any sights. Fifty-nine competitors from Maine, New Hampshire, Vermont, Massachusetts, New York, and Pennsylvania competed.

☆ ☆ ☆

The first Annual Gallery Rifle Tournament, sponsored by the Morrisville Rifle and Pistol Club, Morrisville, Vt., was fired on January 16th. **Edgar J. Allen,** Essex Junction, Vt., was top man with 670 out of a possible 700 points. **Levi J. Taft,** Baret, Vt., placed second with 656, and **James W. Allen,** Burlington, Vt., third, with 654.

☆ ☆ ☆

For the first time since the war, teams of riflemen representing Massachusetts, Rhode Island and Connecticut fired an interstate event. Twelve shooters from each state went on the firing line January 16th, at Varnums Continentals Armory, in East Greenwich, R. I. The ten high scores counted in the team total, each shooter getting 10 shots prone and 10 standing. When the smoke cleared away, **Connecticut** was on top with 1870. **Rhode Island's** 1868 was good for second as **Massachusetts** pulled in last at 1863. The second round will be fired February 13th, at New Haven, Connecticut, with the third and final round on a Massachusetts range.

1948-49 GALLERY PROGRAM

This year's gallery registered league program will be the greatest in the history of the NRA. Five thousand individuals will compete on teams for league, state and national awards. The program is rapidly forming into a most important phase of competitive and club activity. This season there will be over twenty state championships fired and the high teams from one hundred and fifty different leagues will compete for the National Championship titles.

Leagues are well organized and few are made up of the minimum of three teams. This year several of the smaller leagues combined to form one stronger league. Altogether, there are a total of 818 rifle teams and 129 pistol teams firing in the current league program. New York State leads with twelve leagues, followed by Pennsylvania with nine, and Washington with seven. Ohio, Indiana and Colorado have five each. All told, thirty-three of the forty-eight states have at least one registered league active. Hawaii and the Canal Zone each have one rifle and one pistol league.

VFW MATCHES

The National Rifle Association, in conjunction with the National Headquarters of the Veterans of Foreign Wars, will conduct the VFW National Gallery Rifle Matches again this year. The matches will include events for both senior VFW clubs and junior VFW clubs on a team and individual basis. The matches will be open to all VFW clubs affiliated with the NRA as of April 1, 1949. Complete match conditions for these postal events will be mailed to the club secretaries

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WINCHESTER Mod. 61, slide action rifle, 22 short	42.50
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KRAG Army rifles, used, good condition, as issued	39.50
SPRINGFIELD 30-06 Army rifles, used, good condition, as issued	59.50
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STEVENS Mod. 620, Hammerless Repeating Shotguns, 12 gauge	69.50
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in calibers .22, .25, .270, 7 m/m and .30. Rifling twist is std. for these cals., but slower twists available on slow order at no extra cost. Steel is best chrome-moly that money can buy, double heat treated. Bbls. are 1¼" x 27" unturned. Some preturned available, but slower delivery. Now making 6 groove std. bbls. as everybody seems to want these. Bbls. priced at $15.00 each, 20% off to gunsmiths. Attractive quantity discount also in addition. Preturned bbls. $3.00 extra. Barrel fitting to bolt actions resumed, with fair deliveries. Latest FN Mauser actions available fitted with above barrels, $77.50 for sporters, and $82.50 for target grade, white, no sights, tested, guaranteed. Send for folder describing other services and complete details.

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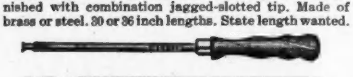

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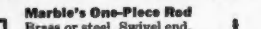

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during March, along with the necessary targets. Under the match conditions the targets will be fired and returned to the NRA on or before May 1, 1949. A permanent trophy will be awarded to the two winning teams and individuals. In addition the first five places in all events will receive gold, silver and bronze medals.

REPORT FROM THE DCM

The DCM is receiving many inquiries concerning orders placed in October. It is requested that no inquiries regarding orders be sent to the DCM at this time. To answer such inquiries means that clerical help working on sales must do this instead of processing sales requests. Members may rest assured that every effort is being made to process the large number of orders for rifles as rapidly as possible by both the office of the DCM and the Ordnance arsenals.

Of the 80,000 orders received from NRA members during the month of October 1948, approximately 34,000 had been processed and dispatched to Ordnance arsenals for filling by the end of January. While the majority of these orders were for rifles, some were for parts or ammunition. The flow of orders for parts and ammunition goes on continuously and every effort is made in the office of the DCM to process such orders as soon as they are received.

Various factors operate to delay the shipment of a rifle to the purchaser, such as: the number of orders with earlier date of receipt by the DCM; the amount of work of a higher priority in the Ordnance arsenals; exhaustion of the supply of rifles of the type ordered in the arsenal, requiring a rewriting of the purchase request on another arsenal; the limitation on the number of clerical employees in the office of the DCM under the appropriation for that office.

DCM CLUB NOTES

Two Army officers and thirty-three civilian employees constitute the office force of the Director of Civilian Marksmanship and the National Board for the Promotion of Rifle Practice.

The office is divided into branches for functional purposes—administrative, qualification, clubs, sales, property and mail and records branches. There is a Fiscal Division which prepares the budget and maintains the accounting for all appropriated funds. The administrative branch handles general administrative matters for the office, the qualifications branch records all marksmanship qualifications reported to the Director of Civilian Marksmanship and issues badges and medals for such qualifications. The club branch handles matters pertaining to clubs enrolled with the Director of Civilian Marksmanship or wishing to enroll. After a club is properly enrolled, and bonded if issue of government property is desired, the property branch takes over and prepares requisitions for the issue of such property. All records of property issued to clubs are maintained by the property branch. The sales branch processes the requests for purchase of any material—rifles, parts, ammunition, etc. through the DCM. The mail and records branch handles all the incoming and outgoing mail and in such months as October when over 80,000 pieces of mail were received, the mere opening of the mail places a heavy burden on the branch.

More detailed outlines of the activities of each branch of the DCM will be carried in following issues of the RIFLEMAN.

Anyone desiring to write to the DCM, the correct address is — Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C. No street address is necessary.

COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

Outdoor Class C tournaments marked (*) are to be fired prior to the time the 1949 Outdoor Registered Tournament Schedule is published. After publication of the schedule, about April 1, Class C tournaments will not be listed.

MARCH

4-5-6 (B) INDIANA—Indiana State Indoor Pistol Championship at Indianapolis, Indiana. Lawrence K. Williams, 547 North 19th Street, Richmond, Indiana (Adv-Ltd)

6 (C) GEORGIA—Georgia-Carolina Spring Warm Up Rifle Tournament at Augusta, Georgia. O. J. Barrett, Jr., Route #1, Augusta, Georgia

***6 (C)** CALIFORNIA—Regular Monthly Pistol Tournament at Los Angeles, Calif. A. S. Eppstein, 903 West 66th Street, Los Angeles 44, California (Adv)

6 (B) OHIO—Twenty-first Annual Ohio Championship at Columbus, Ohio. Lt. A. L. Schmieg, 368 East Kanawha Avenue, Worthington, Ohio (Adv)

8-12 (A) FLORIDA—National Mid-Winter Small-bore Rifle Tournament at St. Petersburg, Florida. Neil Cocking, 780 24th Avenue, St. Petersburg, Florida (Ltd)

12-13 (B) NEW YORK—Tenth Annual Indoor Niagara Frontier Small-bore Rifle Tournament at Buffalo, New York. Andrew S. Kreitner, 175 North Street, Buffalo, New York (Adv-Ltd)

12-13 (B) ILLINOIS—Annual Mid-West Gallery Rifle Tournament at Chicago, Illinois. P. D. Simpson, 10643 S. Champlain St., Chicago 28, Illinois

15-19 (A) FLORIDA—National Mid-Winter Pistol Matches at Tampa, Florida. C. A. Brown, Box 253, Tampa, Florida (Adv-Ltd)

***20 (C)** LOUISIANA—Northwest Louisiana Small-bore Rifle Championship at Monroe, Louisiana. John E. Zufall, 507 Moore Avenue, Monroe, Louisiana (Adv)

19-20 (B) ILLINOIS—Annual Mid-West Gallery Rifle Tournament at Chicago, Illinois. D. D. Simpson, 10643 S. Champlain St., Chicago 28, Illinois

19-20 (B) MONTANA—Montana State Gallery Rifle Championship at Helena, Montana. E. L. Shoemaker, 2010 8th Avenue North, Great Falls, Montana (Adv-Ltd)

19-20 (B) CALIFORNIA—1949 California State Small-bore Tournament at Fresno, California. Russell Wisler, P. O. Box 637, Belmont, Calif. (Adv-Ltd)

***20 (C)** CALIFORNIA—San Francisco Police Pistol Monthly Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California

20 (B) WASHINGTON—Washington State Gallery Rifle Championship at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle 4, Washington (Adv-Ltd)

22-25 (B) FLORIDA—1949 Miami International Pistol Tournament at Miami, Florida. Clement L. Theed, P. O. Box 363, Coconut Grove, Miami, Florida.

24-27 (B) CALIFORNIA—Second Annual Desert Cavaleade International Pistol Tournament at Calexico, California. Mrs. Margaret Poindexter, 146 South 6th, El Centro, California (Adv-Ltd)

26-27 (B) INDIANA—Indiana State Gallery Rifle Championship at Indianapolis, Indiana. Indiana State Rifle Association, Building 115, Fort Benjamin Harrison, Indiana

26-27 (B) IDAHO—Annual Idaho State Gallery Pistol Tournament at Twin Falls, Idaho. Orville C. Lauge, R. F. D. #1, Kimberly, Idaho

26-27 (B) IDAHO—Annual Idaho State Gallery Rifle Tournament at Twin Falls, Idaho. Orville C. Lauge, R. F. D. #1, Kimberly, Idaho

APRIL

1-2-3 (B) CALIFORNIA—Ninth Southwest International Pistol Matches at San Diego, California. Rodney S. Pease, Police Range, 40th and A Streets, San Diego 2, California (Adv-Ltd)

(Continued on page 50)

BISHOP
Superior STOCKS

The wood used to make Bishop Stocks is the fine, dense, hard-grain black walnut that grows in southern Missouri and northern Arkansas.

BISHOP Superior STOCKS are made for M721 Remington . . . 1917 Enfield . . . Remington 30S . . . 1903 Springfield . . . 30-40 Krag . . . M 98 Mauser . . . Winchester 54 & M 70.

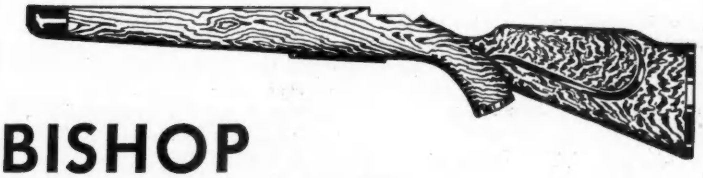
Sporter Type semi-inletted, semi-finished. Postpaid $8.95

Mannlicher Type with steel muzzle fitting and screw. Postpaid 11.50

Target Type. Newly designed heavy target stock—with Mershon No-slip butt plate. .... Postpaid 11.50

TENITE fittings of the best grade are supplied and fitted on all Bishop Superior Stocks except Heavy Target Stock which is fitted with No-slip white line Mershon butt plate. We use our own patented system of attached fore-end cap which saves the stocker a great deal of tedious labor.

All Bishop Stocks are inletted with precision machinery.



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Leader Stock

The Leader Stock is made the same as the Superior Stock except the wood is not quite of the same fine quality. The Leader has the same precision inletting as the Superior, but does not have forearm cap. Butt plate, grip cap and screws are supplied but not attached. These stocks are fully guaranteed.

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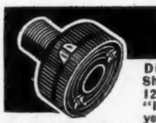

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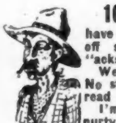

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A PAPER FOR PEOPLE WHO SHOOT

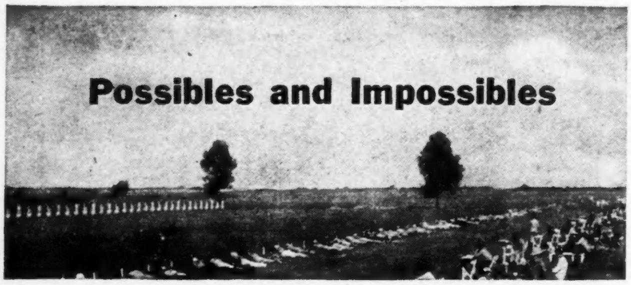
Rifle

Rem gto

VOL. 12, NO. 3

BRIDGEPORT, CON UT, MA

Possibles and Impossibles



In our travels around the country—visiting rifle clubs and attending tournaments—we have heard many discussions relative to what happens to the little 22 bullet when you turn it loose in the wind. It seems that rifle shooters all over the country are becoming more and more "ballistic-minded" and desirous of securing more detailed information concerning the performance of various cartridges.

Angles of elevation for various ranges and the effect of wind on the lateral movement of the point of impact of the bullet are subjects of particular interest to the rim-fire rifle shooter.

In view of the constant interest in these subjects, we have considered it worthwhile to bring these figures up to date on the basis of the latest available ballistic measurements.

A moment's consideration of the windage tables for the Standard Velocity cartridge and the Remington "Hi-Speed" cartridge will show the apparently surprising result that, in the same wind, the higher velocity bullet is deflected to a greater extent than the lower velocity bullet. This, however, is not as surprising as it might seem inasmuch as the deflection caused by the wind is computed by multiplying the difference between the actual time of flight in air and the time of flight in vacuum by the cross-range wind velocity.

For example, consider the 22 Long Rifle Standard Velocity and 22 Long Rifle "Hi-Speed" bullets at 100 yards. The respective times of flight in air are approximately .287 seconds for the Standard Velocity and .259 seconds for the "Hi-Speed." The respective times of flight in vacuum, however, are .262 seconds for the Standard Velocity and .225 seconds for the "Hi-Speed." Hence, the difference in times of flight under the two conditions for the two cartridges is (.287-.262) = .025 seconds for the Standard Velocity and (.259-.225)=.034 seconds for the "Hi-Speed." Thus it is seen that, multiplying these figures by the effective cross-range wind velocity, a larger deflection will be obtained for the "Hi-Speed" bullet.

We have prepared a "Table of Wind Allowance" in which you can find readily the effect of different wind conditions on standard and high velocity bullets. These tables may be obtained on request simply by writing to the Remington Arms Company, Inc., Bridgeport 2, Connecticut.

* * *

Shoulder to shoulder competition as a part of our American way of life breeds interest in any game faster and more extensively than any other medium we know. This was exemplified recently by a New England pistol shooting league in which one of the clubs had the top position of its No. 1 team suddenly challenged by the appearance of an upstart No. 2 team — which promptly proceeded to tie that stately, well-entrenched No. 1 group. This brought about a series of matches that created a new high in attendance of shooters, their wives, and spectators, finally resulting in the No. 2 boys winning out. Present plans include a third team and many more friendly and exciting future matches.

RANGE IM R
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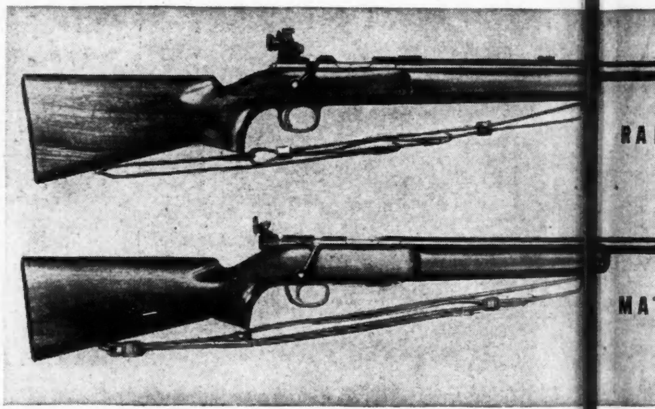
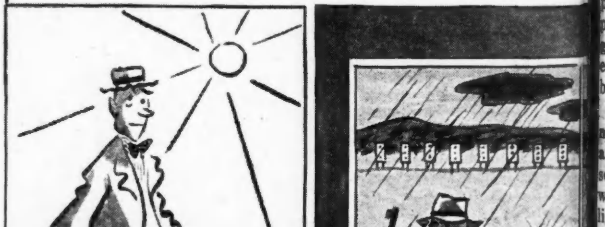
REMINGTON RIFLES ARE FAVORIT WITH
TARGET SHOOTERS FOR A MATC



AROUND OUR CLUB . . . It Always Happens to M



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mgton News

WEATHER:
WELL, MAYBE NEXT MONTH WILL BE BETTER

CON UT, MARCH, 1949

First Class Reading Matter for Rifle and Pistol Shooters

ROVEMENTS PLANNED Y DAYS APPROACH

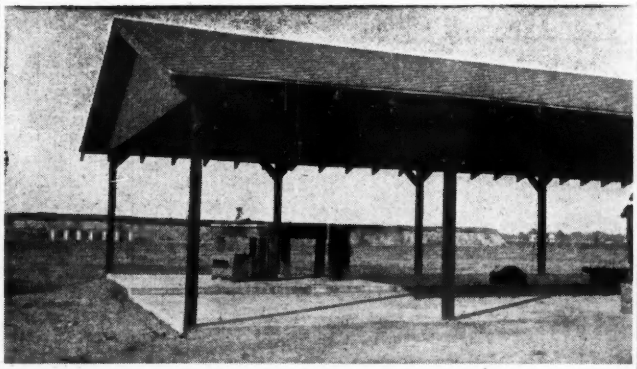
IT WITH AL MATCH POSITIONS

M 37
RANGEMASTER
M 513T
MATCHMASTER

Whenever shooters talk about match rifles, you'll find the Remington Models 37 and 513T praised highly. In every match position these exceptional target rifles help build the shooter's confidence, do their part to bring him tighter groups.

The Model 37 is tops for match shooting. Outstanding among its fine features is the sensational "Miracle Trigger" with its smooth, sharp, crisp, lightning-fast let-off. There's no perceptible movement, no backlash to mar the shooter's accuracy.

The Model 513T is a superbly accurate 22 rifle. Patterned after its big brother, the Model 37, the 513T has a single sighting plane for iron or telescopic sights. Its heavy match barrel, adjustable front sling swivel and target stock help provide the shooter with excellent support in all positions. A grand rifle!



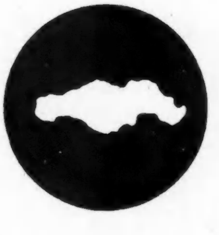
A good example of how a modern range can look is this Azalea City Rifle Range in Mobile, Ala. Has 20′ by 150′ covered firing points to accommodate 30 shooters. Modern, well-constructed. Built by club members with the help of the City Commissioner.

Rifle, Handgun Shooters Alike Praise Accuracy of Remington Ammo

Every match-conscious handgun or rifle shooter goes in a big way for ammunition that backs up his skill.

That's why so many pistol and 22 rifle match hot-shots rely on Remington "Police Targetmaster" and "Palma Kleanbore." They know that when they settle into position, draw a deep breath, exhale and squeeze, their Remington ammo will do its stuff for them.

Faith in the accuracy of "Police Targetmaster" and "Palma Kleanbore" for pistol and rifle shooting builds confidence. And the confidence a shooter puts in his equipment helps him post those high scores with plenty of X's that come with tighter groups.



If the rifle is your game, it's a grand and glorious feeling to peek through your scope and see a 10-X possible like this looking back at you. Remington match ammo will back up your holding to the hilt. Why not try some Remington Palma Kleanbore or Police Targetmaster next time you're at the Club?

Rangemaster, Matchmaster, Hi-Speed, Targetmaster, Palma and Kleanbore are Reg. U.S. Pat Off. by Remington Arms Company, Inc., Bridgeport 2, Conn.

Bridgeport, Conn., March, 1949. Right now the March winds are whistling around the Rifle News Office. But before you know it, the soft Spring breezes will be wafting over sun-splashed ranges. A new outdoor season of shooting fun will be underway.

That means there's probably some cleaning up to be done, beautifying the range to make it as attractive and comfortable as possible to shooters and spectators. For example, covering firing points on the line is tremendously popular with shooters. It helps keep the firing points clean and dry. Shooters can enjoy their sport even on rainy days. From Seattle to New York, some progressive clubs are installing lounges, recreation rooms and dining rooms. One range even has a swimming pool. Every improvement helps get more shooters out more often, tends to make shooting a real family affair.

Help for Pistol Ranges, Too

There are plenty of ways to spruce up a pistol range, too. In cities like San Francisco, Detroit, Los Angeles, Seattle and Teaneck, N. J., club members have planned and then made the plans work to give their club up-to-the-minute shooting facilities. These clubs report that new comfort and safety features increase interest and boost club memberships. If your club would like some suggestions to aid your improvement program, have your club Secretary write to Remington. We'll be glad to help.

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WHO TAKES PRIDE
IN HIS EQUIPMENT
BOYT

At Right — No. 044-W Leather Target Scope Case Sheepwool Lined. Each $27.50.

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SCOPE-CASE

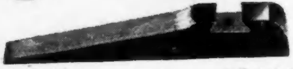
Here is the kind of case that riflemen are proud to own. It provides complete protection for rifle, and is specially designed to eliminate any strain on scope. Zipper opening permits easy access to rifle. Has combination handle and shoulder carrying strap. Fine construction and workmanship.

Available in canvas, plastic, or grain leather with quilted lining of felt or sheepwool. Regularly stocked in overall lengths of 46" to 52". Other sizes on special order. See your dealer. If he is unable to supply you, write The Boyt Company for complete catalog of sporting goods. Boyt 5-Star Scope Cases are priced upwards from... $6.75

Dealers: Write for sporting goods catalog and prices.

THE BOYT COMPANY Box 1355-E1 Des Moines, Iowa

SIERRA
RAMPS



Springfield	½" height
Enfield	7/16" height
Mauser	⅜" height
Sporter	5/16" height
Lo-Sporter	¼" height

#6-48 screw included $2.25 each

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22 Cal. Soft Point Spitzer & Semi-Pointed 45, 50, 55 gr. HV, per 100 ....$2.75

22 Cal. Soft Point Hornet—.223 and .224—40, 45 gr. MV, per 100. $2.25

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8 mm. .32, .30, .270, .25, .22 Caliber.

$1.75 per 1000

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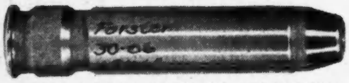

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Carbon Steel

Taps, plug style.		Dies, rd. adj.	
.097 x 56 Whit.	Tap $1.20	Die 13/16-OD	$2.25
.127 x 40 Whit.	Tap 1.20	Die 13/16-OD	2.25
5 x 56 N.S.	Tap 1.15	Die 13/16-OD	2.00
7 x 32 N.S.	Tap 1.15	Die available later.	
9 x 32 N.S.	Tap 1.15	Die 13/16-OD	2.00
3/16 x 40 Whit.	Tap 1.20	Die 13/16-OD	2.25
10 x 40 N.S.	Tap 1.20	Die 13/16-OD	2.00
10 x 48 N.S.	Tap 1.20	Die 13/16-OD	2.00
.220 x 40 N.S.	Tap 1.25	Die 13/16-OD	2.25
7/32 x 40 Whit.	Tap 1.25	Die 13/16-OD	2.25
12 x 40 N.S.	Tap 1.25	Die 13/16-OD	2.25

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2-3 (B) OHIO—North Central Ohio Gallery Rifle Tournament at Mansfield, Ohio. Clarence R. Hassinger, 352½ West 4th Street, Mansfield, Ohio (Adv-Ltd)

***2-3 (C)** LOUISIANA—Second Annual Magnolia Rifle Tournament at Lake Charles, Louisiana. Peggy Bumpers, P. O. Box 1426, Lake Charles, Louisiana (Adv)

2-3 (B) CALIFORNIA—Pacific Coast Small-bore Championship at Monterey Park, California. Gladys Rising, 600 North Mayo Avenue, Compton, California (Adv-Ltd)

3 (B) MINNESOTA—State Gallery Rifle at Minneapolis. Sgt. J. E. Bois, % University of Minnesota, Minneapolis (Adv-Ltd)

***3 (C)** CALIFORNIA—Regular Monthly Pistol Tournament at Los Angeles, California. A. S. Eppstein, 903 West 66th Street, Los Angeles 44, California (Adv)

3 (B) NEBRASKA—Nebraska State Gallery Rifle Championship at Grand Island, Nebraska. Harold H. Buis, 1312 North 35th Street, Omaha 3, Nebraska

***9-10 (C)** GEORGIA—Southeastern Spring Small-bore Rifle Tournament at Savannah, Georgia. Gerald Storey, 2013 Reynolds Street, Savannah, Georgia (Adv)

9-10 (B) INDIANA—1949 Gallery Pistol Championship of the Indiana State Rifle Ass'n at Indianapolis, Indiana. Indiana State Rifle Association, 711 North Penn. Street, Indianapolis, Indiana

10 (B) WYOMING—Central Wyoming and Wyoming State Gallery Rifle Championship at Douglas, Wyoming. Vance Leeper, Box 56, Douglas, Wyoming

14-16 (B) MARYLAND—Third Annual U. S. Aggies Gallery Rifle Championship at College Park, Maryland. Freeman Morgan, 7209 14th Avenue, Takoma Park, Maryland (Adv-Ltd)

***17 (C)** TEXAS—Small-bore Rifle Tournament at Houston, Texas. Grace Cross, 12734 Coulson Drive, Houston 15, Texas

***17 (C)** CALIFORNIA—San Francisco Police Pistol Monthly Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California

***24 (C)** FLORIDA—Florida West Coast Spring Small-bore Rifle Championship at Clearwater, Florida. L. W. Abrams, 705 Prospect Avenue, Clearwater, Florida (Adv-Ltd)

24 (B) OREGON—Oregon State Gallery Rifle Championship at Hillsboro, Oregon. Willis B. Miller, 1432 Liberty Street, Portland 11, Oregon (Adv-Ltd)

23-24 (B) KANSAS—Kansas State Gallery Rifle Championships at Manhattan, Kansas. J. E. Mosteller, 1216 Thurston, Manhattan, Kansas

23-24 (B) PENNSYLVANIA—Pennsylvania State Gallery Pistol Championship at Wilkinsburg, Pennsylvania. W. H. Reithmiller, 606 Forest Avenue, Pittsburgh 2, Pennsylvania (Adv)

23-24 (B) NEW YORK—New York State Indoor Pistol Championship at Endicott, New York. Richard W. Rush, 16 Arthur Street, Binghampton, New York (Adv-Ltd)

24 (B) OHIO—Ohio State Gallery Rifle Team Matches at Columbus, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati, Ohio (Adv)

***23-24 (C)** TEXAS—Second Annual Bluebonnet Small-bore Rifle Tournament at Waco, Texas. Ramsey Powell, c/o Citizens National Bank, Waco, Texas (Adv)

22-23 and 30 (B) UTAH—Utah State Gallery Rifle Tournament at Salt Lake City, Utah. David P. Sugden, 3 North 7th West Street, Salt Lake City 3, Utah (Adv)

April 30-May 1 (B) WISCONSIN—Second Annual Sparta McCoy .30-caliber Rifle Tournament at Sparta, Wisconsin. Earl J. Lucas, 801 North Water Street, Sparta, Wisconsin (Adv)

MAY

7-8 (B) CALIFORNIA—California State Pistol Championships at Bakersfield, California. Captain LeRoy F. Galyen, 1075 Alta Vista, Bakersfield, California (Adv-Ltd)

7-8 (B) TEXAS—Southwestern Rifle Tournament at Dallas, Texas. V. A. Noore, 208 N. Akard Street, Dallas, Texas

14-15 (B) TEXAS—Southwestern Pistol Tournament at Dallas, Texas. Mrs. Betty McPhee, 4018-B Travis, Dallas, Texas

21-22 (B) KENTUCKY—Outdoor Rifle Tournament at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

21-22 (B) NORTH CAROLINA—North Carolina State Pistol Championship at Durham, North Carolina. J. E. King, 105 North Hyde Park Avenue, Durham, North Carolina (Adv-Ltd)

28-29 (B) WASHINGTON, D. C.—Twelfth Precinct Pistol Tournament at Washington, D. C. A. M. Guelig, 1732 Capital Avenue, N. E. #2, Washington, D. C. (Adv-Ltd)

28-29-30 (B) CALIFORNIA—1949 California State .30-caliber Rifle Championship. Russell Wisler, Box 637, Belmont, California (Adv-Ltd)

28-29 (B) TENNESSEE—Tennessee State Small-bore Rifle Championship at Knoxville, Tennessee. A. W. Nine, 104 Underwood Place, Knoxville, Tennessee

28-29 (B) TEXAS—29th Annual State Small-bore Championship at Fort Worth, Texas. Henry H. Hankey, 823 Harris Avenue, Austin, Texas (Adv)

JUNE

3-4-5 (B) MARYLAND—Tenth Annual Maryland Revolver and Pistol Championships at Sparrows Point, Maryland. Marcus H. Miles, Sparrows Point Police Department, Sparrows Point, Maryland (Adv-Ltd)

11-12 (B) KENTUCKY—Kentucky State Open Pistol and Revolver Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

11-12 (B) CONNECTICUT — Twelfth Annual State Small-bore Rifle Tournament at East Wallingford, Connecticut. J. Russell Lent, c/o Lyman Gun Sight Company, Middlefield, Connecticut (Adv-Ltd)

11-12 (B) ARKANSAS—Arkansas State Pistol Tournament at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

11-12 (B) TENNESSEE—Tri-state Small-bore Rifle at Chattanooga. William J. Bonnie, 4023 Ealy Road, Chattanooga (Adv-Ltd)

19 (B) IOWA—Annual State Pistol Tournament at Muscatine. Dr. J. G. Johnston, 219 W. 7th Street, Muscatine

17-18-19 (B) CALIFORNIA—Pacific States Championship Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California (Adv-Ltd)

18-19 (B) NEW MEXICO—Santa Fe Area Small-bore Rifle Tournament at San Fe, New Mexico. Margaret Ishido, 314 Rosario Street, Santa Fe, New Mexico (Adv-Ltd)

25-26 (B) MICHIGAN—Michigan State Small-bore Tournament at Flint, Michigan. Erv Brehm, 3813 Brewster, Dearborn, Michigan (Adv-Ltd)

JULY

2-3 (B) NEW YORK—New York State Pistol Championship at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Boulevard, Poughkeepsie, New York (Adv-Ltd)

10 (B) TENNESSEE—Tennessee State Pistol Championship at Nashville, Tennessee. R. Thurmond Hayes, Hemlock Avenue, Nashville, Tennessee (Adv)

17 (B) WISCONSIN — State Highpower Rifle Championship at Racine, Wisconsin. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin

23-24 (B) ARKANSAS — State Thirty Caliber Championship at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

24 (B) INDIANA—Indiana State Small-bore Rifle Championship at Anderson, Indiana. Lt. Colonel John Friday, Building 115, Ft. Benjamin Harrison, Indiana (Adv-Ltd)

31 (B) VERMONT—10th Annual Vermont State Pistol and Revolver Tournament at Northfield, Vermont. Louis B. Tims, 4 Wilder Street, Montpelier, Vermont (Adv-Ltd)

AUGUST

5-6-7 (B) WASHINGTON, D. C.—United States Park Police Fifth Annual Pistol Tournament at Washington, D. C. Captain M. H. Raspberry, United States Park Police, Room 1215, Interior Building, Washington, D. C. (Adv-Ltd)

6-7 (B) LOUISIANA — Louisiana State Pistol Tournament at Shreveport, Louisiana. J. H. Flournoy, P. O. Box 1094, Shreveport, Louisiana (Adv-Ltd)

20 (B) WISCONSIN—Fifteenth Annual Wisconsin State Small Bore Championship at Racine, Wisconsin. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin (Adv)

20-21 (B) NEW YORK—New York State Small Bore Rifle Championship at Bethpage, New York. V. B. Cleaver, P. O. Box 356, Hicksville, Long Island, New York (Adv-Ltd)

20-21 (B) OHIO—Third Annual Ohio Pistol Tournament at Columbus, Ohio. Lt. A. L. Schmeig, 368 East Kanawha Avenue, Worthington, Ohio (Adv-Ltd)

STOLEN GUNS

One DWM .30 Luger #4895 and holster; one .22/.45 conversion. Lt. Cmdr. E. M. Padget, VF ATU #2, NAAS Cabaniss Field, Corpus Christi, Texas.

One Woodsman, Serial No. 499-S, stolen from hotel room in Great Falls, Montana. B. Durfee, 828-17th St., So., Lethbridge, Alberta.

Winchester .401 caliber automatic rifle, #12346; Remington 16-gauge 3-shot automatic shotgun with Cutts Compensator, #1532933; Remington Model 721, .30-'06-caliber bolt action, #44376; Winchester Model 42, .410-gauge pump shotgun, #9895; Winchester Model 64, .219 zipper caliber lever action, #1376072; Winchester Model 95, .35-caliber lever action, #4480; Mauser .30-'06-caliber sporter; Mauser 8-mm.-caliber sporter, double set triggers, cast storage in stock; Winchester Model 12, 20-gauge pump shotgun, #471630; Springfield .22-caliber smooth-bore clip repeater; H & R Topper 20-gauge single-barrel shotgun, #5821; H & R Topper .410 gauge single-barrel shotgun, #61415; 12-gauge single-barrel shotgun with Weaver Choke; Styer 8 mm. straight pull military rifle; Winchester 1873 Model .32—20 caliber (broken condition); Stevens Model 325—.30-30 caliber bolt action; Colt D. A. .38 revolver; Bayard .25 automatic pistol (incomplete); Luger 9 mm. (incomplete); .22 H & R revolver (incomplete); Ka-Bar clasp hunting knife; Heiser engraved belt and holster with loops, full .38 special cartridge. Stolen, November, 1948, from Federal Arm's Exchange, D. M. Austin, 4435 Root Rd., North Olmsted, Ohio.

Colt Woodsman, .22 cal., standard barrel, 145545, almost new, stolen from car in Washington, D. C. Capt. John Quinn, USN, % Bureau of Naval Personnel, Navy Dept., Washington, D. C.

PRESS
PRESS
Allen Johnson

"Cadwallader-Smythe thinks he'll win his first BLACKINTON medal to-day."

AN ADV'T. OF THE V. H. BLACKINTON & CO. INC., ATTLEBORO FALLS, MASS.

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Complete custom loading on all American calibers from 22 Hornets to 375 Magnums.

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6.5 Dutch ....(rim) 129 or 154 Gr...Box 20..$4.50
7.7 Jap .... 150 or 180 Gr...Box 20..$4.00

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.32 Mauser DA HSC 3.50
.32 Walther PP DA 3.50
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9 mm Belg. or Can. Brng. B1935 .... 3.50
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NEW HUNTING SCOPES

In THE RIFLEMAN, September 1947, a "Dope Bag Review" of postwar hunting scopes on the market, including several new makes, was published. It appeared as if manufacturers had settled on postwar production. All of a sudden, they have come out with seven more. One, the Leupold & Stevens 2½X plain tube scope, being put out in addition to a 2¼X with internal adjustments, came in just a day before this was ready to go to the printers. The Dope Bag is bringing you up to date on the latest scope models. The Technical Staff, of course, hasn't had a chance to shoot game with all of them but it is obvious there are no lemons in the lot.

The tabulated data below will help you in evaluating the fine points. The data presented is the result of tests made on only one sample scope. The photograph and tabulation tell most of the story but here are a few chosen comments worth considering:

1) All seven scopes are good optically but the American ones are superior to the foreign scopes. The American scopes are clear to the edge of the field while the two foreign makes are fuzzy around the outer rim.

2) The Unertl scopes are attractively light in weight but to obtain the weight reduction a softer tube is used and the finish is not as durable as that on the steel tube scopes. In cutting weight to the minimum, these light scopes are the answer.

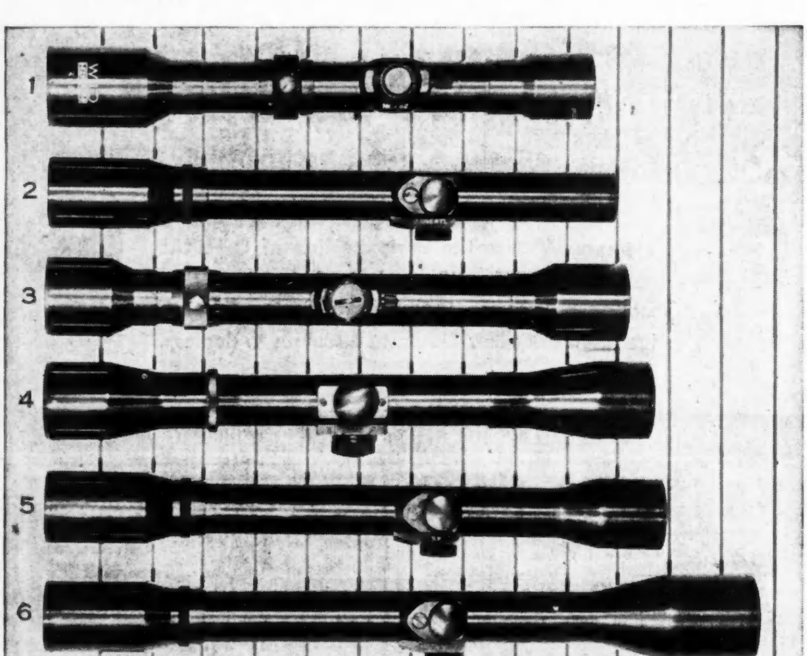
3) The Leupold scope is the lightest of all the scopes but it is the smallest. It has a rough, dull finish which is more durable than the smooth, bright finish on the light Unertl scopes. The Leupold gives surprisingly fine performance for a scope of such small diameter and it has no internal adjustments. Windage and elevation adjustment are taken care of in a new Leupold mount.

4) The Lyman Challenger is an excellent scope. The only objection which we believe valid is that the outside surface of the ocular lens is almost flush with the rear of the eyepiece tube. This leaves the eyepiece in a vulnerable position, and we think Lyman might have made the tube at least ⅛ inch longer. It is true that the ocular is set in as far as it is on the Alaskan but the Challenger ocular is larger and the curved surface extends out further.

5) Swiss Wild scope is well made but because of its shortness and the focusing ring, the mounting possibilities are limited.

6) The new Hensoldt Dialytan is good but it lacks the streamlined look of the American scopes.

The dimension lines in the photograph, together with optimum eye relief in column three of the tabulation, will help in solving your mounting problem. Put the rifle to your shoulder and have someone measure from your eye to the location of the nearest edge of the first mounting ring on the action. In the case of the Wild scope, for example, the measurement should not be less than the optimum eye relief (3.9 inches) plus the first three inch lines on the photograph (3.9 + 3.0 = 6.9 inches). If the mounting rings are ¾ inch wide, it will be possible to shift the scope in the mounts only ¼ inch to the rear. Consequently, the measurement from the eye to the rear edge of the mounting ring should be not more than 7.15 inches (6.9 + .25). From the photograph you can also judge how far apart it is possible to place the mounting rings or whether a mount with fixed rings can be put on the scope.—E. B.



Six new scopes photographed against a diagram of lines one inch apart so that pertinent measurements may be estimated to aid in solving your mounting problem. Leupold is not illustrated

SCOPE	Power	Field of View (Ft. at 100 yards)	Optimum Eye Relief (Inches)	Exit Pupil Diameter (Inches)	Diameter of Unobstructed Objective Lens (Inches)	Outside Diameter of Eyepiece (Inches)	Tube Diameter (Inches)	Weight Without Mounts (Ounces)	Length (Focused) (Inches)
1. Wild 4X	3.9	30.7	3.9	7.8	1.18	1.58	1.04	16.0	10-1/4
2. Unertl Falcon 2¾X	2.6	37.6	4.3	8.9	.88	1.39	1.00	7.5	10-3/4
3. Hensoldt Dialytan 4X	4.0	27.1	4.0	8.8	1.40	1.53	1.05	14.0	10-15/16
4. Lyman Challenger 4X	4.0	27.0	3.9	8.2	1.30	1.52	1.02	13.0	11-3/8
5. Unertl Hawk 4X	3.0	29.0	4.3	10.2	1.25	1.40	1.00	8.0	11-9/16
6. Unertl Condor 6X	5.6	16.5	4.0	7.0	1.50	1.39	1.00	9.0	13-5/16
Leupold Plain Tube 2½X	2.1	35.0	3.9	8.1	.69	1.04	.875	5.0	10-1/8

ENFIELDS FROM BRITAIN

Model 1917 Enfield rifles, both as issued and converted, are being sold at various prices by a number of firms, several of whom are now advertising in THE RIFLEMAN. These rifles are Enfields that have been shipped from Great Britain to this country. Apparently they are some of the rifles obtained from this side of the Atlantic by the British during World War II.

We have recently examined a sample of the converted Enfields advertised by Beekman Industries, Inc., Graybar Bldg., 420 Lexington Ave., New York 17, N. Y., for $59.95. The gun had been converted to sporting style by cutting down the original stock to sporter length, checkering the stock at the grip, removing the rear sight ears and the front sight ears, and supplying a sporting-type open rear sight located on the barrel. It shot good groups in spite of the open rear sight, and the gun could be classed as in excellent condition.

As to the origin of these rifles, Beekman Industries writes, "As we understand the situation from our suppliers, who may be assumed to be fully and accurately informed, large quantities of these rifles were purchased by the British Government before Pearl

Harbor, using good hard American dollars on the cash-and-carry basis. The serial numbers of all rifles so purchased were recorded and British export licenses are issued only for rifles whose serial numbers show they were not lease-lend but cash purchases."—J.S.H.

SHERIDAN PNEUMATIC SPORTER

The manufacturers of the attractive Sheridan pneumatic air rifle are now producing a less expensive counterpart known as the Sheridan Sporter, selling for $35 as compared to $56.50 asked for the Super Grade model. There are no apparent changes made in the mechanical construction of the new Sporter, as it is fully as accurate and as powerful as the Super Grade. The same 17-grain, 5-mm. or .20-caliber special, solid uncannelured, conical lead bullets are used.

Some noticeable changes are: plain oil finish stock without cheekpiece instead of the highly polished stock on the Super; and the full-length silver grey midrib between barrel and piston cylinder has been replaced by two barrel support blocks. The rear aperture and post front sights have been simplified for manufacture but they are fully as reliable and as good as any found on other air rifles.

To sum up the differences between the Sporter and Super Grade, apparently changes have been made only to lower manufacturing costs without losing any of the fine performance of these pneumatic rifles. The Sporter weighs one ounce more (5 lbs. 13 ozs.) than the Super. Both rifles will make one-hole groups at 30 feet and they will penetrate more than 1 inch of soft pine. Velocity has been chronographed at 710 foot-seconds after pumping the piston lever ten times.—A.H.B.

ZINC ALLOY BULLETS

William B. Anderson, 14801 Harrison Rd., Detroit, Mich., has been experimenting with zinc alloy lightweight .30-caliber bullets, which he states cause less fouling than Kirksite. The alloy melts at 750 degrees F. and Rockwells 10 points lower than copper. He suggested we try 40 to 45 grains of No. 4895 powder with these 120-grain gas-check bullets, which were sized to .309 inch, lubricated and then rolled in fine graphite.

These bullets with 40, 42 and 45 grains of No. 4895, lot 27277, grouped in less than 2 inches at 100 yards. Those without the graphite did best in our rifles.

Even when fouling is present it can be removed using Hoppe's No. 9, according to Mr. Anderson. We had no fouling to remove. These bullets will be available only in .30 caliber.—A.H.B.

BARREL RELINING

Where can I get a relining tube for the rifled barrel of a German combination gun? The shotgun tubes are chambered for 16-gauge shells, but the rifle takes the 9.3 x 72 mm. load which is not available.—G. SLAWSON, Canisteo, New York.

Answer: For many years Diller of Ohio was the only American gunsmith who was well-known for his barrel relining service. In fact, we have been looking for another specialist in that line since Diller announced that he could no longer accept work.

We have received a description of a relining job offered by Pat Mulligan, 240 Ruxton Ave., Manitou Springs, Colorado. While we have not had an opportunity to examine

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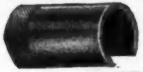

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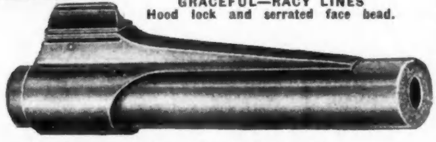

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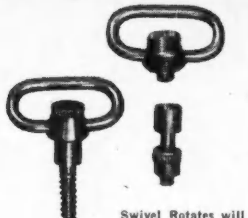

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.224"	S. Pt. 6-Ogive	Moffat	45	2.25
.224"	S. Pt. 6-Ogive	Moffat	45 & 50	2.50
.2575"	H.Pt. Spitzer	Collins	87	4.20
.2575"	S. Pt. Spitzer	Collins	100 & 117	4.20
.263"	S. Pt. Spitzer	Collins	120	4.20
.308"	S. Pt. Spitzer	Sierra	150	4.50
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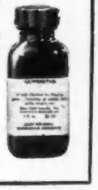

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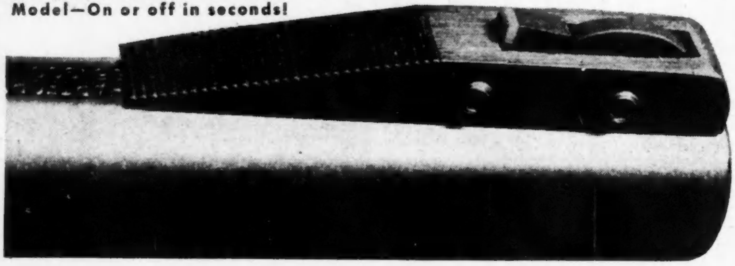

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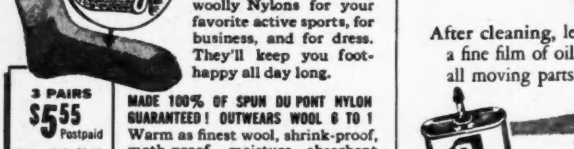

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a sample of the work itself, we have seen a drawing and an explanation of his method. The job appears to be practical, and while its originator does not claim 'bench rest' performance, he is confident it will give very good hunting accuracy.

No solder or sweating is used to seal the liner in a reamed out barrel. After turning a Buhmiller blank down to liner dimensions, Mulligan uses his own cold anchoring process. The fact that the job is done without heat eliminates the danger of separating the barrels along the line of solder bonding.—J. S. R.

ENFIELD MAGAZINE TROUBLE

Could you tell me the easiest and safest way to correct loading troubles in a .30-'06 Enfield rifle. A cartridge in the chamber ejects OK, and the first three feed properly from the magazine, but the fourth cartridge feeds hard, nicking the lead on the bullet. However, the bottom cartridge moves forward about an inch and sticks. The magazine spring tension is particularly strong.—HENRY W. HUSTER, Inkster, Michigan.

Answer: We very seldom hear of Enfield feeding problems such as you have experienced. I would suggest you get a new follower and follower spring. In the meantime, polish the follower bright, and also polish the inside of the receiver against which the cartridges rest as they are fed from the magazine. Chances are you will find your rifle has a very heavy and rough Parkerized finish on it, and a good polishing on all the magazine parts should prove helpful. Also, you might polish the ramp or taper forward of the magazine follower.—A. H. B.

SHEET STEEL FOR BLUING TANKS

I do not know whether other members have had trouble securing black sheet steel for making bluing tanks, but I found it impossible to get in my locality. Here is how I managed to make up an emergency tank.

At a local car-wrecking yard, I went through their collection of overhead valve covers. These are made of heavy steel and range down in size from 35x5x5 inches. The one from the Buick '36 straight eight is the handiest and will just squeeze in an Enfield barrel and action.

I ripped out the reinforcing brackets, hammered flat and welded up the ventilating slot. I then welded on a handle at each end and welded on three pieces of bar stock at the three holes through which the hold-down bolts formerly were located. I found that I then had a very sturdy tank for almost any purpose, bluing included. In a pinch, bolting or riveting may be substituted for welding.—MARVIN E. STRONG, Sayville, New York.

VAN'S INSTANT GUN BLUE

Instant Gun Blue, made by C. S. VanGorden & Son, Eau Claire, Wisconsin, has been recommended rather highly for touch-up work and even for complete bluing jobs. We tried it and reported satisfactory results some time ago in the Dope Bag. Since then we have learned by experience and through others that Van's Gun Blue will sometimes actually remove the old blue instead of blending in, as is necessary for spot bluing. We discovered that apparently Van's Blue and the blue produced by the now commonly used immersion process do not mix, though it works well with guns blued by the old 'rusting and boiling' process. The following information from Mr. VanGorden may help to clear up a few points:

"I believe I have reblued almost every known make and type of gun made in America and some guns from foreign countries. I find there are two types of blue jobs. One is the legitimate acid-cooked job which works wonderfully well with our blue and which is not removed with our preparation. The other type is produced by rebluing a gun with a so-called lacquer or dip process, in which a coating has been applied.

"This second type bluing is tough to do anything with. However, where the stuff has not chipped but simply been worn off, our product will do nicely, but you have to work fast with it. Never allow it to take action for over five seconds (faster is better) and it will fill in nicely and make for a fairly smooth job. Just apply the blue with cloth or cotton, let it set for two or three seconds, and dry immediately with a clean cloth. Keep this process up until the finish gets dark and matches the other.

"I find that using steel wool with this bluing preparation will give a finish as perfect as any factory finish. The steel wool helps to remove sludge, grease, scale, and rust, and the blue is applied smoothly and thoroughly.—C. S. VAN GORDEN."

'ALTERNATE' BULLET

Of late I have received many requests for information concerning the ammunition received from the DCM, which is mostly marked 'Ball, Caliber .30 M2 Alternative.' The boys want to know what the 'Alternative' means.

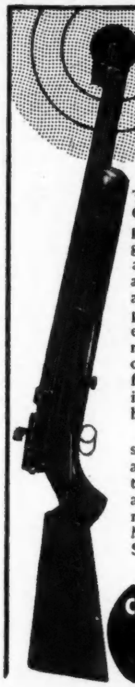
Here is the story—briefly:

An explanation of the Alternative marking indicates that it refers to bullet only. The Standard M2 ball bullet weighs 152 grains and has a gilding metal jacket. The Alternative bullet, adopted during the recent war to conserve copper, weighs the same but has a mild steel jacket, either copper-plated or copper-clad. The gilding metal jacket weighs 52.5 grains while the steel jacket weighs 49.5 grains. Therefore, the lead-antimony core in the gilding jacket weighs 99.5 grains while that in the steel core runs 102.5.

Extended tests by the Ordnance Department indicate that the copper-coated steel jacket creates no more barrel wear than the gilding metal.—PHIL SHARPE.

KNOW YOUR POWDER

The firing of a supply of U. S. Army Krag cartridges, loaded by Winchester with the 220-grain bullet and issued originally by the DCM, showed good accuracy and apparently normal pressures. When I let a friend have a number for resizing the cases for his Niedner .257, he discarded the bullets but saved the powder for reloading. The powder closely resembled in appearance I.M.R. No. 20 or Du Pont No. 17½. My friend reloaded his resized cases with the regular measured charge for these powders (I do not know what that is for the .257; for the Krag it would be 35 or 36 grains). He fired several shots at the



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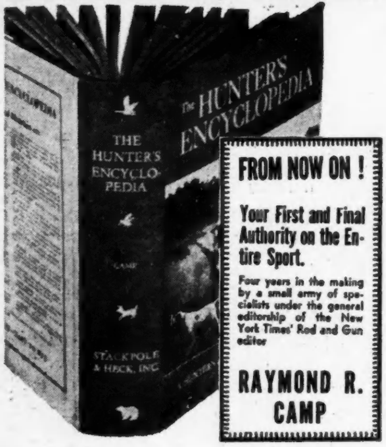

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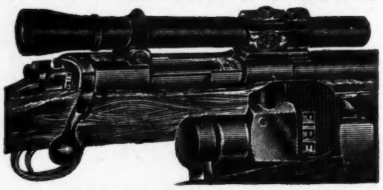

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target and said he got good accuracy, but the load was 'pretty hot.' He passed a few to a friend, who also was shooting a Niedner .257, but one in which the firing mechanism had been altered to take a smaller firing pin. The first shot broke the pin and pretty much wrecked the bolt assembly; fortunately it did no further damage. When I heard of this I drew the bullet in one of the shells and weighed the powder. It weighed 28 grains instead of the expected 35 or 36. To be sure the weight was right, I checked my scales with a chemist's scales and found them correct.

My guess is that this powder was from a lot never intended for the market, a lot that was tested for pressure and velocity at the factory and loaded to meet government specifications.

Moral: Don't monkey with powder you know nothing about except that it looks like something you have been using. Find out what you are shooting before you shoot. You may not have a chance to find out later.—CHARLES H. CHAPMAN, Chappaqua, N. Y.

CASES FOR THE 9MM. LUGER

Can I convert .38 Special cases to 9 mm. Luger cases?

I recently ran into a batch of ammunition made up in this way. But in cutting off the rim to make the headless case and cutting out the extraction groove, would there be sufficient metal in the head of the Peters .38 Special case to keep the heads from cracking or blowing off.—HAROLD L. POSSON, Parkville, Mo.

Answer: The .38 Special case would be weakened considerably, because it is constructed to be the rimmed type and there probably is not enough metal in the head to insure safety with maximum loads in 9 mm. Luger caliber. It is a mistake to consider using this cartridge, because the .38 Super Auto cartridge case is so nearly like the 9 mm. Luger, except for case length, that it could be used instead. It is already the semi-rimmed type and all you have to do is cut the length from about .90 to .75 inch.—A. H. B.

RECHAMBERED 6.5 MM. JAP

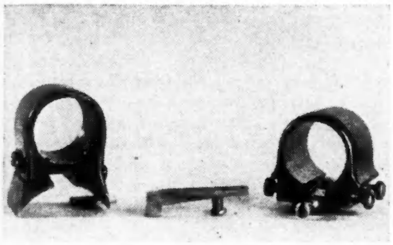
R. W. Lathrop, The Gun Shop, North Seattle, Wash., who did a conversion job on a 6.5 Jap rifle (RIFLEMAN, July, page 56), started to convert my rifle in accordance with the description in the article. However, he found the bore of the barrel to be .03 inch undersize and reamed the chamber for a .257 Roberts case. The result is, I now have one of the sweetest shooting .257's made. Furthermore, it shoots factory ammunition.

Maybe there are more undersize bored rifles such as mine in the hands of others who do not know what they are missing.—LT. E. J. HALL, USN, Long Beach, Calif.

HOMEMADE SCOPE MOUNT FOR THE ENFIELD

After studying "Another Enfield Conversion" in the RIFLEMAN, June 1948, I decided author Joseph H. Taber was on the right track concerning a scope mount and that I would see what could be done with his ideas. I had a rear scope block which was not working, so it was installed on the receiver ring and the front mount was designed for use with this block, which gave me a mount that could be removed intact with the scope. The rear mount, also designed with this feature in mind, is firmly held in place by four screws through the ears. The inclined wedge, instead of the split ring in the rear mount, was the suggestion of Mr. C. C. Bunker, a local machinist who did the actual work of making these mounts and produced a very beautiful job.

The dimensions and general outline of the rear mount follow closely those in Mr. Taber's article, with the exception of the inside diameter, which is for a 7/8-inch scope tube but can be designed for any standard tube. The wedge in the rear mount really tightens on the tube and leaves the width as machined to a snug fit between the ears, as would not be the case with the split block type of adjustment. There is no chance of the wedge loosening as the tendency of the scope to jump forward when firing keeps it tight with very little tension on the adjusting screw. The head of the screw on which the wedge stands in the photo is recessed in a slot in the bottom of the mount and only holds the wedge in place in the mount when dismantled; it has no tension or connection with the tube.



Another set of homemade Enfield scope mounts

As shown in the photo, the right leg of the front mount is short and fits snugly down on the shoulder of the bulge which contains the gas port on the righthand side of the receiver, while the left leg continues farther down to a feather edge.

I would suggest that anyone interested refer to Mr. Taber's article and drawings for dimensions and general information; I might state that those not saving the back copies of the RIFLEMAN for reference are not entitled to fine equipment anyway. —C. J. MOORE, Daytona, Beach, Fla.

TIN-PLATED .30-'06 CASES

A few days ago I received a shipment of 'once fired' .30-'06 cases. When I opened the box I found that they were not of the brass color I expected, but were of bright finish.

I would like to know if they are O.K. for reloading? I load for .270, 8 mm., and .30-'06 calibers.

I also bought through the DCM some M2 .30-'06 ammunition made at Des Moines. I want to know if I could pull the 150-grain bullet and use the 140-grain Barnes bullet in .30-'06 caliber with the same powder charge and case, or should I reduce the charge?—FRANK VENTERS, Holcomb, Missouri.

Answer: The fired F.A. .30-'06 cases have a tin coating on them which originally identified the ammunition as proof loads developing around 68,000 pounds pressure. We have learned that some of these cases, after being fired, have expanded primer pockets so that new primers will fit very

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loosely in them. Under such conditions the cases, of course, would not be practical for reloading, but otherwise they will be perfectly safe.

There should be no reason at all why substituting the 140-grain bullet for the 150 grain would not be perfectly safe in the .30-'06 cartridge. Of course, you should never use a heavier bullet with the same powder charge.—A. H. B.

PAINLESS MAGAZINE-LOADING BUTTON

Readers may be interested in a simple gadget I use for easing the thumb agony of loading magazines of most target semiautomatic pistols. It costs only a few cents and works fine.

By taking a common hard rubber faucet washer, either ⅜ or ½ inch in diameter, and enlarging the hole by reaming with a three-cornered file, it will fit easily, but not too loosely, over the button of the magazine-loading platform. It is then a simple and painless matter to depress the spring to load the magazine of a pistol, in my case a Model HD-M High Standard. The button is removed when the clip is loaded.—A. S. JAUCHLER, New Orleans, La.

SIMPLE CROW DECOY

Carl Hoinke, Wardall Avenue, Cheviot, Ohio, has made simple crow decoys from 3/16 to ¼ inch plywood. To the vertical body silhoutte section cut from the plywood, the thin horizontal wing pieces are outlined and then glued. Apparently from the crow's standpoint and that of the hunter as well, these simple decoys work extremely well, according to member F. A. Buck of Cleveland Heights, Ohio, who suggested the idea to us and verifies their effectiveness. Some very good shooting has been done over these decoys, which are anchored, using a bent piece of wire through the lower half of the 'body.' —A. H. B.

MORE ABOUT THE LAHTI PISTOL

After reading in THE RIFLEMAN (October 1948) about the Lahti pistol, I thought the following additional information might be of interest.

The Lahti pistol was designed by Col. Aimo Lahti of the Finnish Army. He is the man who designed the well-known Suomi machine pistol and several other fine weapons. He is quite well-known in Europe and the Germans were very anxious to have him design weapons for their army. Col. Lahti is about 50 years old now. The Lahti pistol was made in the State rifle factory Valtion Kivääritehdas, located in Tourola Jyväskylä in central Finland.

The Swedish Lahti is a slightly inferior copy of the Finnish pistol.—WILLIAM C. ROEGE, JR., Columbus, Ohio.

NEW PRODUCTS

Targetstamp is a small, vest-pocket size metallic case containing a rubber stamp and an ink pad. It is used to stamp two target diagrams on the back of your squadding ticket for keeping a record of your shots for future reference. Price is $2.75, postpaid, from J. W. Latham, 744 Chipeta Ave., Grand Junction, Colorado.

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Tenite loading funnels can be obtained from Weatherby Custom Sporting Goods, 8823

Long Beach Blvd., South Gate, Calif., at 50¢ each. No. 1 size will fit .22-caliber and .30- through .375-caliber case necks. No. 2 size is made to fit inside the necks of .25-, .270- and 7-mm. caliber cases. These funnels were designed especially for use in reloading cartridges.

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Crow calls in pairs, one tuned to a higher pitch than the other, are being sold by the Bert-Tony Crow Calls, 435 Parker Avenue, Dayton 1, Ohio. They are the result of the combined efforts of Bert Popowski and Tony Hoover. Bert Popowski is well known for his articles on crow hunting and his book *Crow Shooting*.

☆ ☆ ☆

Bullet puller, practically universal in application, is being produced by Al Streich, 535 East 12th St., Casper, Wyoming. It can be used with the Pacific reloader or any other tools, taking the standard 7/8 inch, 14 threads per inch. A bullet puller sleeve is tapered on the inside to take and hold the spring collet which is merely slipped over the bullet down to the case mouth. So far, no bullets have been too tough to pull. The two collets and one holder which complete the set can be used to pull bullets from most any cartridge. The smaller collet will take all bullets from .22 up to .270 caliber and the large size will go from .270 to at least .375 caliber. The entire outfit sells for only $6, complete.

Plain cast bullets or others with soft alloy jackets will be slightly mutilated during the pulling process, but others, like the .30-caliber service bullets, come out without the least damage being done.

☆ ☆ ☆

Decapping pin and crimp remover is being produced for the Pacific and similar tools by F. R. Krause, 301 East Iron St., Albuquerque, New Mexico. The price is $3.50 complete with neck expanding plug or $2.50 and customer's decapping pin assembly. Krause says it is best for the customer to send in a die complete and he will put in his pin, test it and return the die. Krause also makes a crimp removing punch and anvil for $3.50.

☆ ☆ ☆

Sniper safety for Mauser 98 or Jap rifles is being installed by the East Bay Gun Shop, Roscommon, Michigan for $7.50. The safety is a cross pin which goes through the stock about one inch above the trigger guard. When the safety is on, the pin protrudes on the right side. The bolt serves to keep the pin from being pushed in and thus releasing the safety, although the pin is well to the rear of the bolt. The pin pushes in easily and silently. In fact, it would be a safer safety if it did not work quite so easily. We do not believe that in operation the safety will be any faster than others. The shooter must either take his finger off the trigger to release the safety or bring his thumb over the top of the stock and back again before he shoots. Less movement is required for a top thumb safety.

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Cartridge box labels measuring 1¼ by 1⅞ inches, for marking all of the pertinent data on your boxes of handloads, are available from Saeco Products, Santa Anita Engineering Company, 2435 East Colorado Street, Pasadena 8, California. Saeco will send you one dozen free. All you have to do is request them from the company and enclose a stamped, self-addressed envelope. Additional

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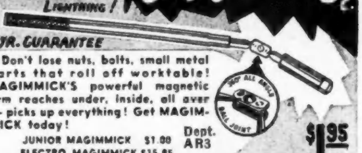

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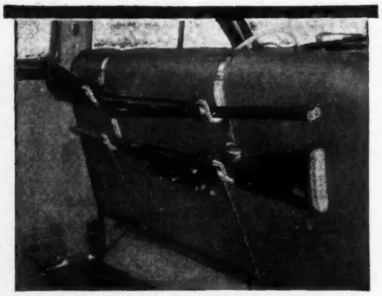

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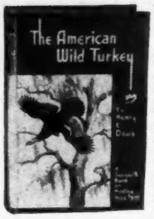

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De Luxe recoil pad by the Pachmayr Gun Works, 1220 South Grand Avenue, Los Angeles 15, California, is designed to give an even distribution of recoil without forcing the pad downward. It is decorated with a white spacer between the black strip next to the gunstock and the red, brick or black cushion section of the pad.

☆ ☆ ☆

Finished Bishop stocks are now available from E. C. Bishop & Son, Inc., Warsaw, Missouri, for the Enfield, Springfield, Krag, F. N. Mauser and the Mauser 98. Previously Bishop has sold inletted stocks which were only rough turned on the outside.

GUNSMITH TRADE DOPE

Nitro Press Mfg. Co., Route 2, Lafayette, N. Y., makes a very practical loading die which fits in Pacific, Universal and Easton Big Giant reloading tools. A single die-holder is employed to take a neck-sizing die and expander plug with decapping punch. For bullet seating the sizing unit is replaced with a bullet-seating punch. The dies ($7.50 per caliber) for the .257 Roberts work very well and can easily be adjusted for other .25-caliber cartridges such as .250 Savage, .25-35 Winchester, .25 Remington and even the .25-'06 Magnum for neck sizing and bullet seating only. Shell holders for the various tools must be available, as they are not furnished by Nitro Press Company.

Custom barreling and chambering work, especially for wildcat cartridges, is a specialty of the Company.

☆ ☆ ☆

Charles F. Curns, 3560 Falcon Avenue, Long Beach 7, California, will take the trigger and sear assembly for your Enfield, Springfield, Mauser or Jap rifle and take out the creep and slack for $2.50. With the alteration comes a new spring with a pull of about 3 pounds. If more pull is wanted, the old spring can be used.

☆ ☆ ☆

Dockendorff & Co., Inc., Oronoque, Conn., have overcome the difficulties in producing a .050-inch gold bead for use on varmint and small-game rifles, according to John W. Hession, vice-president of the firm. The standard size beads, .060, .070 and .080 inch, cover 6, 7 and 8 inches, respectively, at 100 yards. A smaller size was desirable for use on squirrel and pest rifles to keep from hiding the entire target behind the bead or standard gold cross wires. The .050-inch size shows up very well against most any background, except a regular bullseye target. The sight is not well adapted to target shooting.

☆ ☆ ☆

W. R. Hutchings, formerly at 508 E. 23rd St., has moved to 4504 West Washington Blvd., Los Angeles 16, Calif. In addition to supplying well inletted stocks with plenty of wood on the outside, Hutchings also designs and executes stock carving and checkering. On the stocks we have seen the carving was artistically done. The stocks from Hutchings blanks which we have fitted to Mauser, Enfield and Springfield rifles have all been satisfactory.

☆ ☆ ☆

Cox & Sprague, 634 North 13th, San Jose, Calif., are now manufacturing the excellent inside cartridge case cleaners, and primer pocket cleaners designed and formerly sold by the late Lawrence Wesnitzer. A Wesnitzer design of case trimmer will be available in the near future.

☆ ☆ ☆

Neil J. Kenney, 230 So. First Ave., Sandpoint, Idaho, is a gunsmith who specializes in both high-grade metal and stock work. His full-length ventilated rib is very attractive and the entire stock work, including checkering, reflects both quality and experience. Kenney's sporters, complete with rib, scope and mounts, come rather high. The one sent for our inspection lists at $350.00.

☆ ☆ ☆

P. O. Ackley, gunsmith of Trinidad, Colo., writes, "It seems to be the general impression that we are operating a gunsmith's school here with our company and all our men are trainees. Probably this conclusion is due to the fact that I happen to be the originator of the Gunsmithing School at the Trinidad State Junior College and am still connected with in the capacity of instructor. I happen to conduct the lecture course in Modern Gunsmithing and also in Metallurgy. However, the school has absolutely no connection other than that with our company. . . . Information concerning this school can be obtained direct from the Junior College or direct through me, but . . . there is no connection between the two places, and the students do not work here in our shop."

☆ ☆ ☆

McKinzie Gun Shop, 9530 S.E. Stark St., Portland 16, Oregon, in response to demands of their customers, has designed a new model quick-detachable sling swivel. The bases are set flush with the wood and the revolving swivels are released by depressing a button. Those we have used have been satisfactory. The McKinzie sight ramps, not drilled, but furnished with 6-48 screws, are attractive also.

☆ ☆ ☆

Herter's, Waseca, Minnesota, now offer to completely hand inlet their semi-finished stock blanks at an additional cost of $7.00. The rifle should be sent for this final inletting work.

The one job we have examined, the standard 8-mm. Mauser military receiver and barrel, were just about as perfect a fit as one could expect from any gunstock specialist.

When ordering any of the Herter stocks, which include the plastic fore-end tips, we suggest that the fitting be done at the factory at slightly additional cost. This is one of the trickiest jobs the amateur will experience when fitting and finishing a gunstock.

☆ ☆ ☆

Robert S. Thomas is opening a sporting goods store at 8616 Georgia Ave., Silver Spring, Maryland. He will continue his optical cleaning and coating service and scope repair work, including the popular Tommy Dots.

Along with a rather complete line of sporting goods, Thomas will have reloading supplies, including all components such as bullets, powder and primers.

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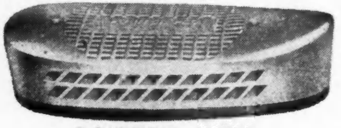

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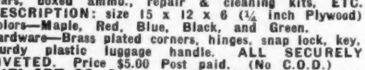

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BOOK REVIEWS

COMPLETE GUIDE TO HANDLOADING

By Philip B. Sharpe

This book was first published in 1937. In 1941 the second edition came out with a 72-page supplement. Now, the long-awaited third edition appears, revised and noticeably enlarged, two books combined. The original part of 465 pages has only been revised, the loading data remaining the same as was published in the first and second editions. The supplement, however, has been increased to 229 pages with its own index and twelve chapters instead of the seven found in the 1941 edition.

The most recent information on modern powder has been included and several extremely valuable chapters have been added. These chapters cover practical loading data on "Loading Foreign Oddities" (27 pages) and "Wildcat Cartridges" (22 additional pages). At least fifty or more foreign calibers are discussed and valuable loading data listed for many of them. This authentic data and much of the dope on wildcat cartridges is presented by two distinguished shooters and handloaders, Thomas C. Florich and A. J. E. Shay. Although the wildcat loading data, covering more than fifty different cartridges, has been obtained from reliable sources, the special comments on these cartridges by the author should be noted carefully.

There may be some truth in the wise remark that in *Complete Guide to Handloading* Phil Sharpe has not told specifically how to reload a single cartridge. The author's answer though is that anyone paying $10 for a book on reloading has been in the game long enough to have obtained the fundamentals, either by experience or through the inexpensive reloading handbooks. This third edition is surely a compilation of invaluable loading data, most of which is unobtainable from any other source.—A.H.B.

(Published by Funk & Wagnalls Company, New York, N. Y. 465 pages, with 229-page supplement. Illustrated and indexed. Available through NRA Book Service. Price $10.00.)

PRACTICAL DOPE ON THE BIG BORES

By F. C. Ness

This book is a companion piece to an earlier book, *Practical Dope on the .22,* by the same author, who needs no introduction to shooters. Essentially it is a compilation of reliable reloading and shooting data that has been accumulated over many years. Much of the information contained in the book is rearranged and revised material which was published in THE AMERICAN RIFLEMAN while the author was Technical Editor, and it is based on actual tests and experiments.

Starting where he left off in the earlier book covering .22-caliber cartridges, F. C. Ness has presented loading and shooting information for the majority of cartridges from the .25 through the .505 Gibbs. The history and development of many experimental and wildcat cartridges report the attempt to perfect superbly accurate cartridges with high velocity and flat trajectory at safe working pressures. A number of the popular commercial cartridges have evolved

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from these early individual experiments. The book is filled with much material of this kind, including many cartridge case sketches drawn to scale with important case measurements.

The nature of the contents, and the fact that much of it is excerpts and direct copy from the Dope Bag, make some sections of the book rather disjointed. But the value of the book lies in the fact that the information is authentic and not the outcome of someone's imagination. All material is indexed by caliber and by subject, indispensable in a book of this kind.—A.H.B.

(Published by Stackpole & Heck, Inc., Harrisburg, Penna. 436 pages, illustrated and indexed. Available through NRA Book Service. Price $5.00.)

THE AMERICAN WILD TURKEY

By Henry E. Davis

Henry E. Davis has written this book from a lifetime of experience in hunting the wild turkey, mostly in the restful South Carolina country of live oak, spanish moss and cypress swamp. He has supplemented his acute observation with perceptive reading of scientific and hunting books upon the wild turkey.

Roughly the book falls into two sections, one on the history of the turkey in general and the wild turkey in particular, and the other on hunting the wild turkey. In the first section Davis defines the turkey, giving its physical characteristics and discussing its food and cover, roosting and feeding, breeding and nesting habits.

The second section on hunting the wild turkey is filled with personal anecdotes drawn from years of hunting but it is a systematic study of the methods of hunting, the use of calls and callers, and one chapter alone is devoted to the ways a turkey has of outwitting the hunter. A good portion of the section on hunting is allotted to the proper weapons for use in hunting turkeys. The author's views on buckshot and its performance and capabilities are particularly instructive.

No review of this fine, large, well-written book would be complete without special mention of the splendid illustrations—gravures the publisher calls them—by artist E. Stanley Smith.

This book is interesting from end to end and is most highly recommended.—J.S.H.

(Published by T. G. Samworth, Georgetown, S. C. 320 pages, illustrated. Price $5.00. Available from the publishers.)

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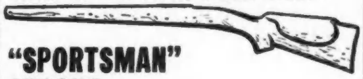

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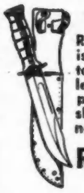

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Rugged 7" blade! U. S. Marine Corps issue. High carbon steel, Parkerized to prevent rusting, well-shaped. Heavy leather non-slip handle. Complete with heavy leather sheath. Brand new. .....only $1.50

RIFLE SCABBARDS

U. S. ARMY ISSUE!

Extra-heavy finest cowhide rifle scabbards complete with straps. Just the thing to carry your rifle on horseback or in the car. Will fit lever, bolt, pump or semi-automatic rifles. Brand new. Postpaid, only $4.50

Satisfaction guaranteed or money back. Send check, cash, or Money Order. Sorry, no C.O.D.'s except where stated above. Calif. residents add 2½% state tax.

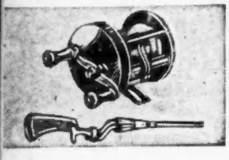
R. H. VAZQUEZ & CO., Dept. A-3
Phone Forest 83615
124 West Valley Blvd. El Monte, California

GREATEST BARGAINS EVER OFFERED
BY KLEIN'S SPORTING GOODS SINCE 1885!

SAVE MONEY ON THESE SPECIAL OFFERS!

WRITE FOR COMPLETE INFORMATION ABOUT OUR GUNSMITHING, GUN BUYING AND GUN TRADING SERVICE

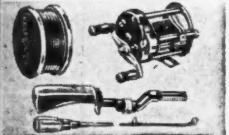
PAY ONLY 10% DOWN!



$25.20 VALUE ROD and REEL $9.95

Nobody! But Nobody can offer the equal of this Amazing Rod and Reel Bargain! Only Klein's has it, as usual! Here's what you get for the **one low price of $9.95**: A 4½ or 5 ft. (state choice) "Gep Special" Model 133 Solid Steel Casting Rod, plus an $11.00 "Admiral" level wind and anti-back-lash Reel. The "Gep" rod is a new 1948 (discontinued) model with such features as Triangular shaped solid steel tip, "Gep" "Nu-Grip" offset handle and metal tube tip carrying case. The Rod is medium flexible action. What a value!

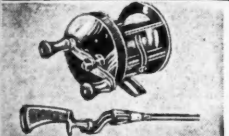
7-4715—Both Rod and Reel........$9.95



BARGAIN! BALANCED CASTING OUTFIT $6.98

Cast on to this amazing value! For only $6.98 you get: a "Gep" Model 290 Solid Steel offset Handle Casting Rod, 4½ ft. length, plus a famous Bronson "Altoona" level-wind Casting Reel, plus a 50 yd. spool of Shakespeare Wexford 15 lb. test Nylon line.

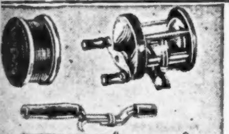
7-4709—Casting outfit, complete........$6.98



BIG VALUE! BALANCED CASTING OUTFIT $14.99

Here is a combination that will catch the big ones! For only $14.99 you get a World Famous Shakespeare "Light Wondereel", and a specially selected (for balance) "Gep" Model 195 Solid Steel 4½ or 5 ft. offset handle Casting Rod.

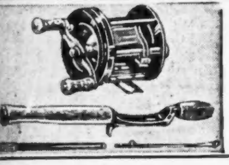
7-4710—Casting outfit, complete........$14.99



SPECIAL! BALANCED CASTING OUTFIT $19.65

You can't beat this balanced combination of a Pflueger "Skilkast" Reel, a "Gep" Model 215 Tubular Steel offset Handle 4½ or 5 ft. Casting Rod, plus a Shakespeare Wexford 15 lb. test Nylon Casting Line, 50 yd. Spool. All for only $19.65!

7-4711—Casting outfit, complete........$19.65



"MARHOFF-PAL" BALANCED OUTFIT $24.45

PAY ONLY $2.50 DOWN

For only $24.45 you can enjoy Bait Casting as it should be, with a beautiful Shakespeare "Marhoff" Reel, and a Heddon "Pal" (Universal) tubular steel Casting Rod, 4½ or 5 ft. length.

7-4712—Casting outfit, complete........$24.45

AVE UP TO $17.00! VATER MASTER BOAT

Shipped Prepaid Anywhere in U.S.

ater-Master Nationally Advertised ifetime Boat. Only Klein's will crate and ship it Prepaid anywhere in e U. S.—saving you up to $17! aterproof, ¼" hardwood marine lywood guaranteed not to come part. Length 12 ft.; beam 42"; epth amidships 16". Waterproof rome green exterior.

-1920—Shipped Crated, by Prepaid Freight........$107.80

Weighs 87 lbs. $107.80

AMERICA'S GREATEST GUN TRADERS

Publishers of "The Gun Digest" New Edition only $1.50 Postpaid

KLEIN'S

Sporting Goods

SINCE 1885

227 WEST WASHINGTON ST., CHICAGO 6, ILL.

ALL ORDERS FILLED PROMPTLY!

UNCONDITIONAL MONEY-BACK GUARANTEE

ALL ARTICLES IN THIS AD SHIPPED POSTPAID

O: Klein's Sporting Goods, Dept. 5-3, 227 W. Washington, Chicago 6, Ill.

ush me........No........Sizes:........

(Use bottom of page or separate sheet for additional items, Name and Address)

IMPORTANT NOTICE to PURCHASERS of FIREARMS or AMMUNITION

Kindly sign the following statement, which is in accordance with the regulations of the Federal Firearms Act: "I am not an Alien, and I hereby state that I have never been convicted in any court of the United States or any of its possessions of a crime of violence, nor am I at present under indictment or a fugitive from justice." (**No Guns or Ammo. sold to Minors**). If permit is required by your state, send it with order.

SIGNATURE........ OCC........ AGE........

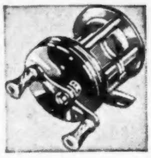
☐ **ENCLOSED IS $........☐ CHECK ☐ MONEY ORDER**

☐ Ship C.O.D. with inspection privilege.

☐ Ship on 10-Day FREE EXAMINATION. At the end of ten days, if I have not already returned the merchandise to you, I will send my remittance in full payment.

☐ Enclosed is 10% (or more) Down, I will pay balance $........monthly.

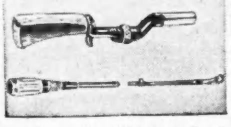
If ordering on Easy Payments or Free Exam., please state your exact occupation and age. If you work on a farm, order must come from farm owner.



$10.00 SHAKESPEARE WONDEREEL $8.75

The Model 1920 Shakespeare Wondereel reduces backlashes to a minimum, without the necessity of thumbing. Level winding. Capacity: 100 yds. 15 lb. line —50 yds. with plastic arbor furnished. Weight 8 oz.

7-4054........$8.75



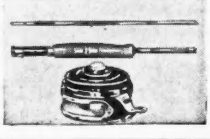
$9.45 'GEP' ROD $4.89

Save 48%! This great "Gep" solid steel (Model 555—discontinued Model) "Actionized" Rod sold for $9.45 in 1948! A lucky buy enables Klein's to offer these Brand New Rods—choice of 4½, 5 or 5½ ft. lengths—at only $4.89—**while they last!** Has all famous "Gep" Casting Rod features, including adjustable Pistol Grip. Case included.

7-4382—Was $9.45, Now........$4.89

BALANCED FLY CASTING OUTFIT

PAY ONLY $2.15 DOWN $21.35



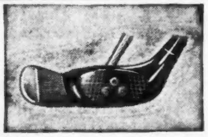
Try to beat this great combination: a South Bend Model 59 Split Bamboo Fly Rod, choice of 8½ or 9 ft. length with extra tip and case, plus a Shakespeare Model 1837 Automatic Fly Reel, capacity 80 yds. "G" line, all for only $21.35.

7-4713—Fly Casting Outfit, complete......$21.35

$5.00 "STUBBY" CASTING ROD $2.89

This fine 3 ft. length solid steel rod is perfect for casting or trolling for the "Big Ones." Made by a famous manufacturer (whose name we aren't allowed to mention) to sell for $5.00. A lucky purchase enables us to offer a limited quantity at only $2.89. Handle is aluminum with threaded screw locking reel seat, fine cork rear and forward grip.

7-4608........$2.89



$66.00 SET OF 4 MATCHED WOODS $29.95

Famous Burke "Butchart-Nicoll" Bench Made (hand made) Woods . . . laminated heads with insert. Finest True Temper "Dynamic" Steel Shafts. Men's, right hand, set of 4 Matched Registered Woods. Guaranteed $66.00 Value. (Driver, Brassie, Spoon, No. 4 Wood). Irons to match the Woods are also available—see below. Save 50%!

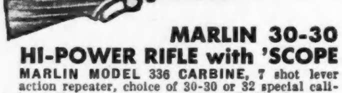
7-7065—Set of 4 Woods........$29.95

7-7066—Set of 8 Irons to Match. $80.00 Value........$39.95

$7.95 GASOLINE LANTERN $4.95

A sturdy single mantle lantern that gives a bright, high candlepower light. Won't blow out in strong wind, won't spill when turned over. Burns 10-12 hrs. on 2-pt. capacity. Brass and steel construction, finished in attractive green enamel finish. Pyrex globe. 12½" high, 5" base, 5½" diameter top. Has water-tight compartment in base for matches, and other things.

7-1663........$4.95



MARLIN 30-30 HI-POWER RIFLE with 'SCOPE

MARLIN MODEL 336 CARBINE, 7 shot lever action repeater, choice of 30-30 or 32 special calibers. Weaver J 2.5 Scope Mounted, 2½ Power.

7-2210S........$88.45

7-2210—Without Scope........$61.45

BELGIAN BROWNING AUTOMATIC SHOTGUNS $108

PAY ONLY $11.00 DOWN

7-2462 BELGIAN BROWNING AUTOMATIC illustrated, Regular Weight. State choice of 16 Gauge, and state choice of barrel length choke.

Postpaid........$10

7-2463—Same as above, with raised rib........$1

7-2466—Belgian Browning Lightweight Automatic Shotgun. State choice of "Light 12" or "Sweet 16" gauge. Also state choice of barrel length and choke........$1

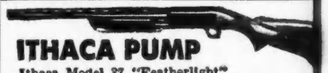
7-2467—Same as above, with raised rib........$1

AVAILABLE — NEW 1949 GUNS!

(Listed below is a small part of Klein's Write for Catalog—state your needs.)

PAY ONLY 10% DOWN!

Mossberg 151M Automatic 22 Rifle........
L. C. Smith 12, 16 or 20 Ga. Double Barrel Shotgun........
Mossberg Model 152-22 Automatic Rifle........
Savage 219 Single Shot 30/30 Rifle........
Stevens 410 Ga. and 22 cal. Over and Under........
Stevens 325 30/30 Bolt Action Repeater........
Colt 'Woodsman' Sport Mod. 22 Auto. Pistol
Colt 'Woodsman' Match Target Model 22 Automatic Pistol........
Colt 'Woodsman' Target, Model 22 Auto. Pistol........
Smith & Wesson 'Military and Police' Revolver 38 Special, 2", 4", 5" or 6" Barrel
Benjamin Air Pistol or Air Rifle, BB........ 177 or 22 cal........
FN Mauser Sporter, 270 or 30-06 cal. Lyman 48........
Savage Automatic Model 720—12/30"........
Winchester 22 Pump, 22 W.R.F. Model 61........
Remington 121A Pump, 22 cal........
Colt 38 Super Automatic Pistol........
Colt 45 Automatic Pistol........
Colt 38 or 45-22 Conversion Unit........
$15.00 Johnson Indoor Target Gun........
$19.95 Rochester 22 cal. Air Rifle........
Marlin Model 88-22 Automatic Rifle........



ITHACA PUMP

Ithaca Model 37 "Featherlight" Pump Action Shotgun, Plain Barrel. All gauges. (Rib Barrel $15.00 Extra)

7-2660........

K-22 and K-38

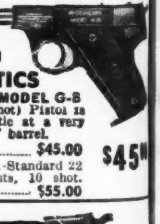
SMITH & WESSON "MASTERPIECE" TARGET REVOLVER, 6 shot, 6" rib barrel, Target Sights. Blued Finish. Latest Models.

7-2300 K-22, 22 cal........**$65.00**

7-2302 K-38, 38 Spec........**$65.00**

7-2303 M&P, 2", 4", 5" or 6" Barrel, 38 Spec........**$56.50**

$65



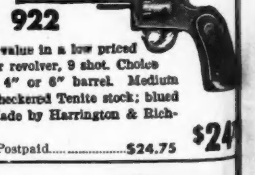
HI-STANDARD 22 AUTOMATICS

THE HI-STANDARD MODEL G-B 22 AUTOMATIC (10 shot) Pistol is a high quality automatic at a very low price. 4½" or 6¾" barrel.

7-2322........**$45.00**

7-2320 Model H-DM Hi-Standard 22 Automatic Target Sights, 10 shot. 4½" or 6¾" barrel........**$55.00**

$45



H&R 922

The best value in a low priced 22 caliber revolver, 9 shot. Choice of 2½", 4" or 6" barrel. Medium weight, checkered Tenite stock; blued finish. Made by Harrington & Richardson!

7-2342—Postpaid........**$24.75**

$24

FREE NEW FISHING, GUN

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 **Rhode Island Ave., Washington 6, D. C.** *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: March 1st for the April issue. Ads received after March 1st and not later than April 1st will be inserted in the May issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform **with our standards and to reject or discontinue any advertisement which we consider undesirable.**

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only,* will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions*: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

FOR SALE

AMMUNITION FOR SALE: AMMUNITION Specialists—Largest shooters' stock in America—over 250 varieties of cartridges, including many of the scarce foreign and domestic types. Factory loads only. Practically all sizes in foreign ammunition for immediate delivery. Send 3 cent stamp for list. #1-1949. Life Member, Philip J. Medicus, Dept. AA, 18 Fletcher Street, New York City 7, New York.

WORLD'S FINEST, RAREST, ANTIQUE guns. Selling out, list 14. Self addressed, stamped, Long envelope. Miller Bedford, New London, Ohio.

COME WEST! NATIONALLY KNOWN CUSTOM reloading service for sale. Heart of Northwest's Sports Playground. Approximately 100,000 rounds popular caliber ammunition ready to market. Sufficient components to last two years regardless of national shortages. Tools and dies. Can be moved. Everything at cost. $5,000 will handle. Owner retiring. Paul Ratliff, Box 6247, Spokane, Washington.

RELOADING LUBRICANTS: IPCO COLLOIDAL graphite ribbon wads $1.00 box; IPCO bullet lubricant, $1.00 box. Special discount to dealers. Industrial Products Co. W. W. Perkins, Prop., Box 14, Wakefield, Mass.

"POP" EIMER, A.G.G. RIFLE, REVOLVER conversions, improved, .30-06 chambering, targeting. Joplin, Missouri.

FISHING SUPPLIES: EARTHWORM breeding. Valuable bulletins on successful methods mailed free. Earthmaster Publications. Dept. 15, Sun Valley, Calif.

1 ONLY REMINGTON SLIDE ACTION Model 141A .35 cal. with 2 boxes shells. Brand New. First $140.00 takes it. N.R.A. Member A. W. Monda, 137 State St., Schenectady, N. Y.

"SHOTGUNS"—"RIFLES"—"HANDARMS"—"Ammunition" — "Rods" — "Reels." List 10¢. A. R. Rudolph's, Atchison, Kansas.

ELECTRIC PENCIL: ENGRAVES ALL Metals $1.25 postpaid. Beyer Mfg., 10511-Z Springfield, Chicago 43.

OUT-OF-PAWN, "SHOTGUNS," "RIFLES," "Pistols," Big Savings, write needs, enclose stamp. Virginia Pawnbrokers, Danville, Virginia.

BIG CATALOG, ANTIQUE GUNS FOR SALE. $1.00. 475 photographs. Satisfaction guaranteed. Gil Hebard, Knoxville 5, Illinois.

SPERM OIL, FINEST, WINTER GRADE, 8 oz. for $1.00, postpaid; S. Levitt, 884 Westminster Rd., Woodmere, N. Y.

52 SPORTER EXCELLENT 29S SCOPE $90.00. 62 Win. excellent $29.00. Norman Read, Belfast, Maine.

EXCELLENT M81 REMINGTON 35 CALIBER automatic rifle, 50 cartridges $155.00. H. Sedlacek, Radium, Minn.

FOR SALE, SAVAGE 23D, EXCELLENT IN, V.G. out, Weaver 29S, Lee Dot, First M.O. $70.00. Alfred Dicks, Jr., Cheshire, Conn.

220 SWIFT, TARGET GRADE WINCHESTER Model 70, custom French Walnut Marksman stock. Perfect $155.00. S. W. Gall, 1557 Addingham, Cincinnati 23, Ohio.

WINCHESTER 21 SKEET, PISTOL GRIP, recoil pad, only three boxes shells fired. New $40.00. Custom built mutton-leg leather case. Both $265.00. Richard Kennedy, Enid, Okla.

.32-20, .38-40, .44-40 CASES RELOADED FOR pistol or rifle, many other modern and obsolete calibers reloaded. Trade ammunition for cases or guns. White, 2108 Rosedale, Houston, Texas.

LISTINGS OF HUNDREDS OF ANTIQUE and modern arms, edged weapons, cartridges, accessories, small antiques. Get on my mailing list for 25¢. H. A. Brand, 105 E. Third St., Cincinnati 2, O.

SALE: BARGAINS. PRIVATE COLLECTION. Rifles, 257 Roberts; 270; 405; 22. Pumps, 12, 16, Winchesters; Colts, Smith & Wesson. Stamp, list. B. A. Ferringer, Fairmount City, Pa.

LANDLOCKED SAILORS! BEAUTIFUL, 64 page richly illustrated catalogue of fittings, old time sailing ships, model guns, sailboats and motor boats, authentic in every detail. Only 35¢. Halesite Yacht Service, Dept. A. R., Halesite, Long Island, N. Y.

INVENTORS: HUNDREDS OF MANUFACTURERS have requested our assistance in locating marketable new products. Complete information, free. Institute of American Inventors, Dept. 131, 1926 Eye St. N.W., Washington 6, D. C.

GUNS, REVOLVERS, AMMUNITION, ALL sizes. Mail 10¢ in coin for list. Miller's Sport Shop, Dept. R-142 N. 8th St., Phila. 7, Pa.

GUN RACKS, SOLID WALNUT, NEW, TO hold 4 guns, handsomely made, $6.95. For 6 guns, $9.95. 4th Annual Gun Digest $1.50. Send money order. Public Sports Shops, 11 S. 16th Street, Phila., Pa.

WAR SURPLUS BARGAIN. ONE QUART can (32 oz.) U. S. Official Gun Oil plus four 6 oz. cans (24 oz.) U. S. Official Gun Bore Cleaner, All for $1.50, postpaid. This quantity sufficient for normal 10 years use and is worth 5 times our price in similar commercial products. Life member, Philip Jay Medicus, Dept. AO, 18 Fletcher Street, New York 7, New York.

1 ONLY MODEL 70 WIN. IN .250/000 CAL. Brand New with 3 boxes of shells $135.00. N.R.A. member A. W. Monda, 137 State St., Schenectady, N. Y.

FLIGHT BOOTS, SHEEPLINED, ARMY AIR Force surplus, used, reclaimed for reissue, state shoe size $5.95 (add 50¢ for postage and handling) check or money order, examination privilege. A. R. Rudolph's, Atchison, Kansas.

BIGGER INCOME FOR YOU! SELL POPULAR priced quality shirts direct. Big advance commissions. Bonus. Steady repeats. Permanent, profitable business opportunity. Also profit-making companion line. Write today. Free outfit. Bostonian Mfg. Co., Dept. 12, Boston, Mass.

"WE'RE GROWING!

"Several months ago we started running a small classified ad in the 'Arms Chest'. Not only was the response way beyond our expectations, but the friendliness of your readers makes it a real pleasure to do business with them.

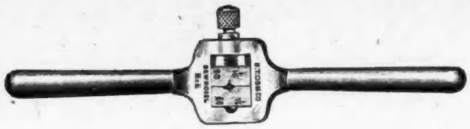
"Starting with your next issue we plan to run a one inch display ad and then increase gradually as our business continues to expand."—Calif.

***Many* successful businesses have been developed from very modest beginnings in these classified columns. If you have a product or service which is of usefulness to shooters or outdoorsmen a few "test" ads here might start you on the upward road to similar success.**

☆ ☆ ☆

Final closing date for the May issue is April 1st. See above for full instructions.

SCREW PLATES



for cutting new threads on blanks, to the required dimension, be it over or undersized, and to recut damaged ones for smooth threading.

Only with 2 pc. dies you can cut the clean, proper-fitting thread to keep the screw tight in place, so important in assembling actions and in mounting sights and scopes.

Available in following special threads:*

*Prices quoted are for Dies only.

.125—48 W	$1.75	.220—40	$1.75
.140—48 W	1.75	Enfield ¼—30	1.75
3/16—36 W	1.75	Springfield ¼—25	1.75
3/16—40 W	1.75	Mauser ¼—22	1.75

Die Holder for 2 piece dies $2.50

FRANK MITTERMEIER

GUNSMITH SUPPLIES

3577 E. TREMONT AVENUE • NEW YORK, N. Y.

COMPLETELY INLETTED

ENFIELD STOCKS

- Cheek Piece—Stock designed by John Hutton
- Neidner Butt Plate of Checkered Steel
- Well Seasoned Pre-War Walnut
- Sanded Smooth, Ready for Oil Finish

GUARANTEED TO EXACTLY FIT ACTION

17.50 POSTPAID

Sportsman's Gun Finishing Kit consisting of gun-bluing, stock finish, wood stain, stock wax, steel wool, sandpaper & emery cloths **$3.50**

GUNSMITHS—WRITE FOR QUANTITY DISCOUNTS

827 14th ST. N.W. **PARKER-WHELEN CO., INC.** WASH. 5, D.C.
Dept. R

CONVERSIONS

Enfields, Springfields and Mausers made into sporting rifles. Custom barrel work. Your Win. 52 made into sporter to your specifications. We are familiar with the needs of target shooters and can handle your work promptly. Write for price list.

THURMAN RANDLE & CO.

208 N. Akard St. Dallas 1, Texas

BANTA .22 BULLET DIES *MGS BULLETS*

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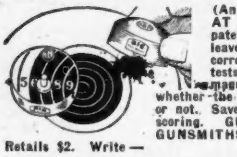

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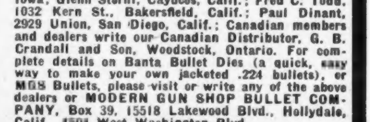

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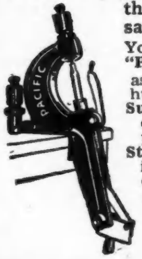

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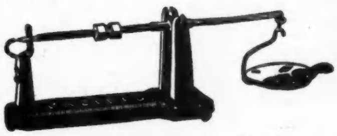

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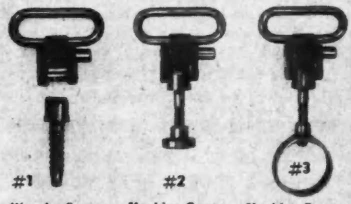

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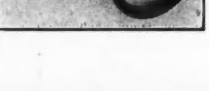

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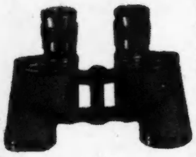

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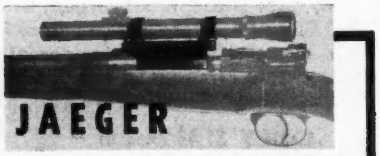

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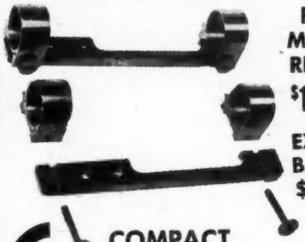

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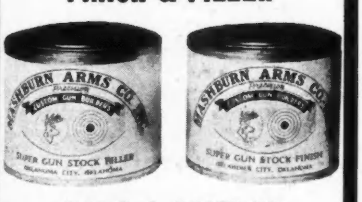

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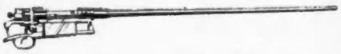

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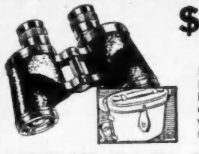

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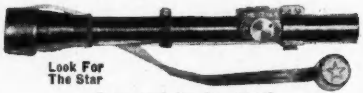

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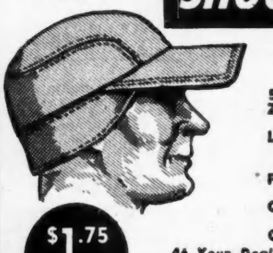

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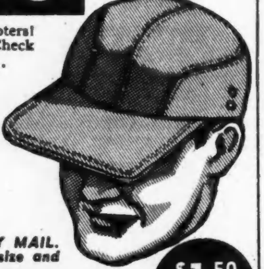

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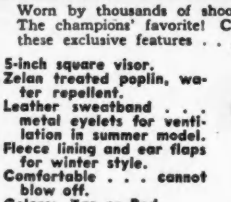

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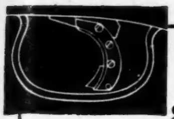

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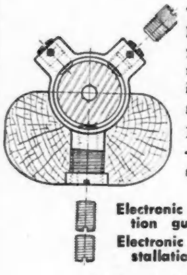

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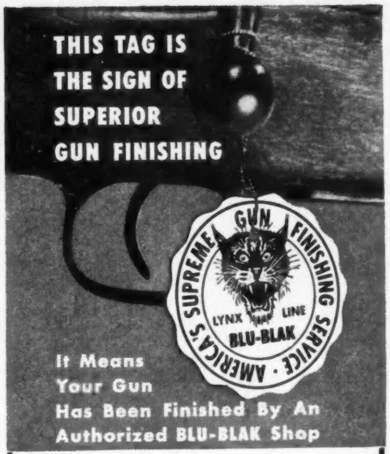

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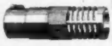

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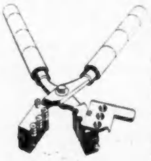

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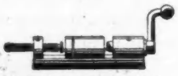

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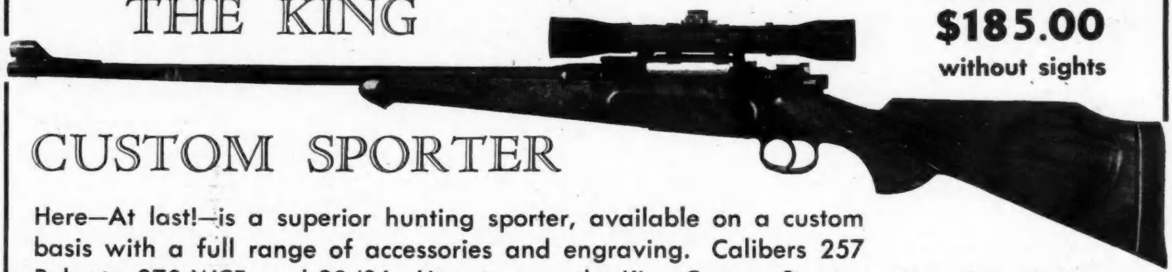
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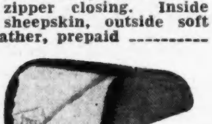

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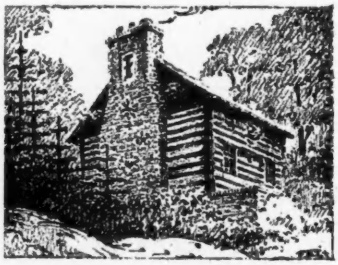

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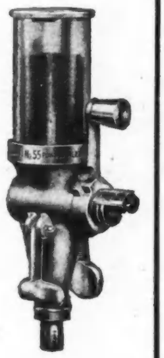

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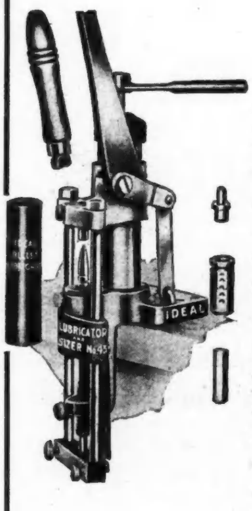

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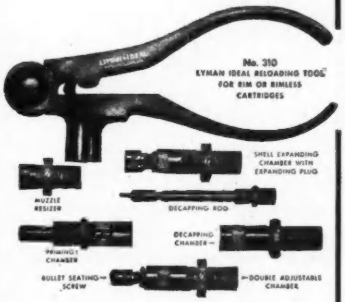
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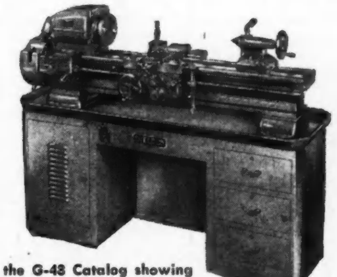

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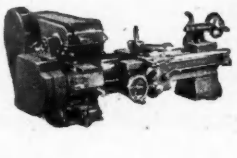

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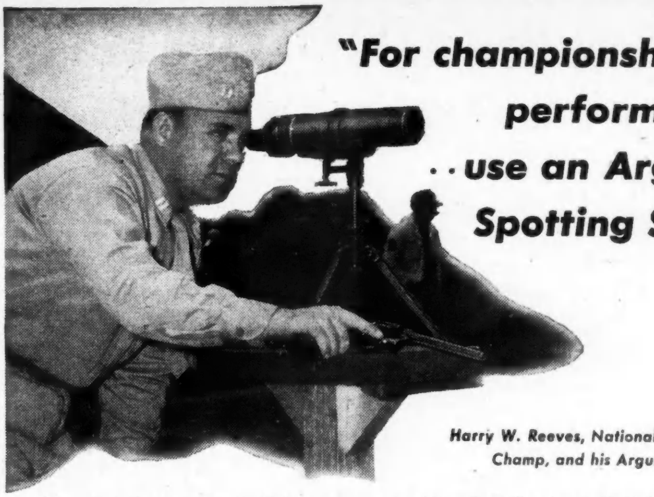

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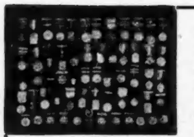

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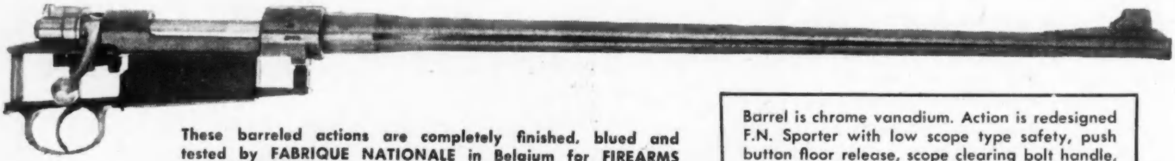

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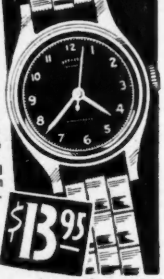

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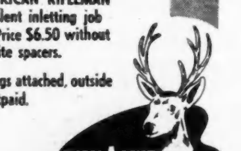

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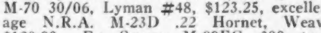

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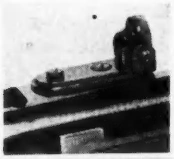

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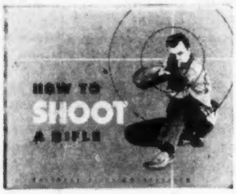

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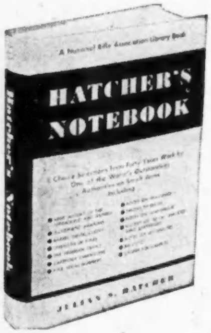

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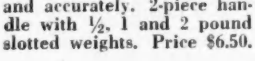

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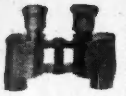

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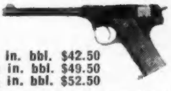

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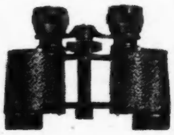

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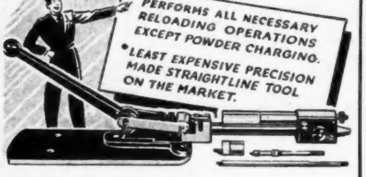
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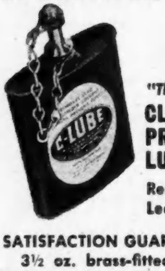

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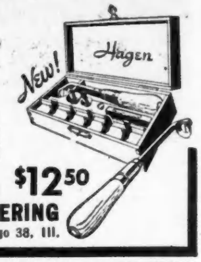

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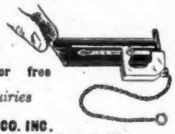

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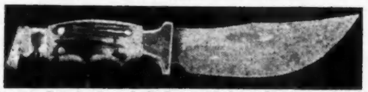

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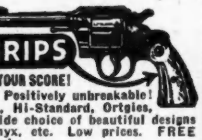

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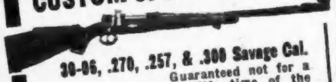

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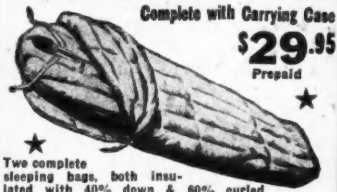

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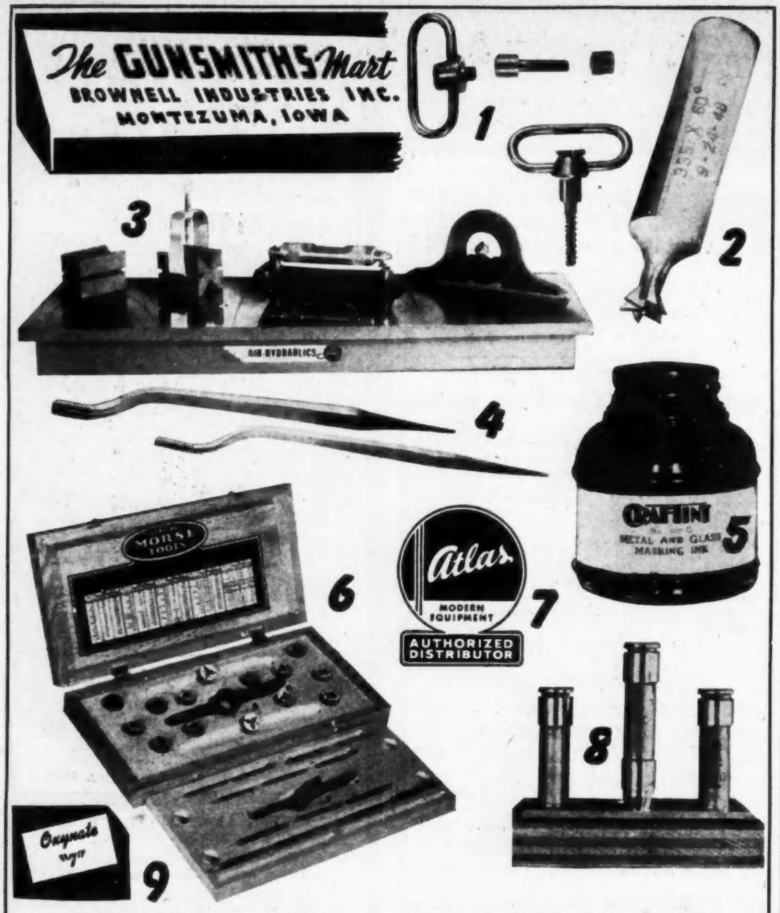

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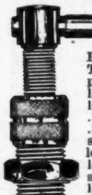

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38 S & W
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38 A.C.P. Super
380 A.C.P.
9 mm. Luger
38-40 Revolver
41 Short Colt
41 Long Colt
44 S & W Spl.
44-40
44 S & W Ruusian
44 Webley
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45 A.C.P.
45 Auto Rim.
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219 Zipper C.C.C.
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22 Varminter C.C.C.
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22 Mag C.C.C.
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7 mm Mag Belted C.C.C.
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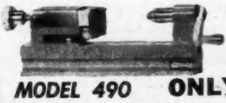

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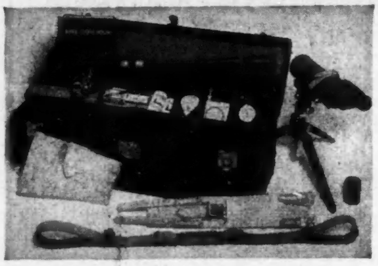

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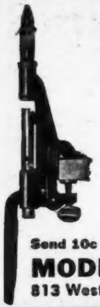

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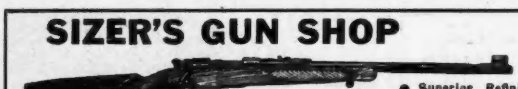

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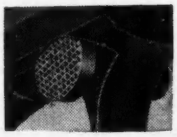

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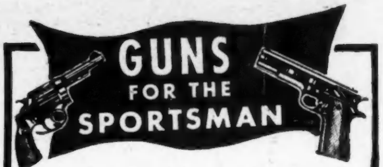

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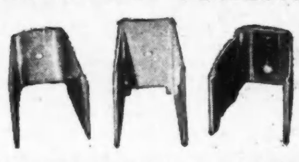

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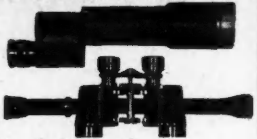

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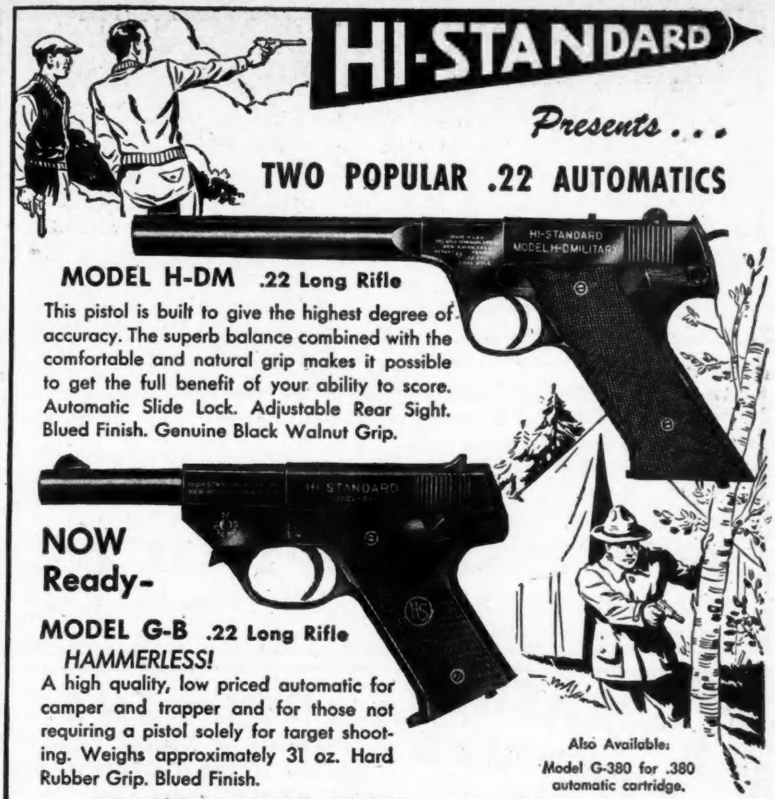

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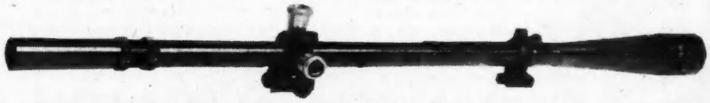

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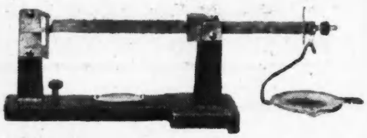

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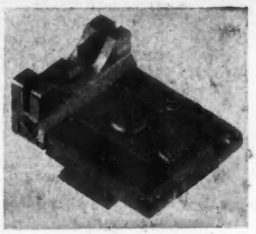

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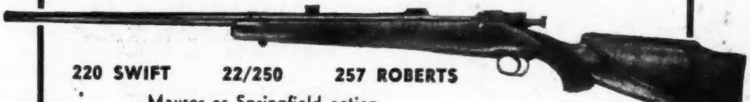

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BULLETS: 8 m/m .318, 159, 196 Gr.	4.20
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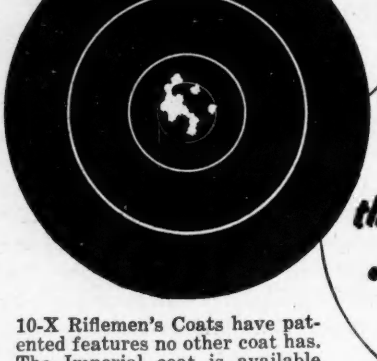

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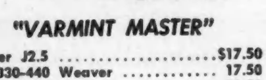

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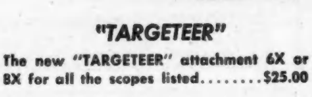

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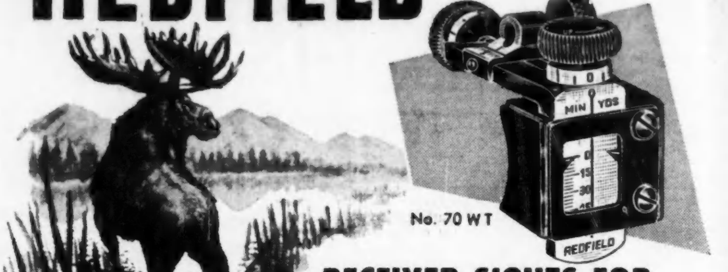

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See January Issue

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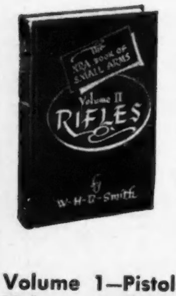

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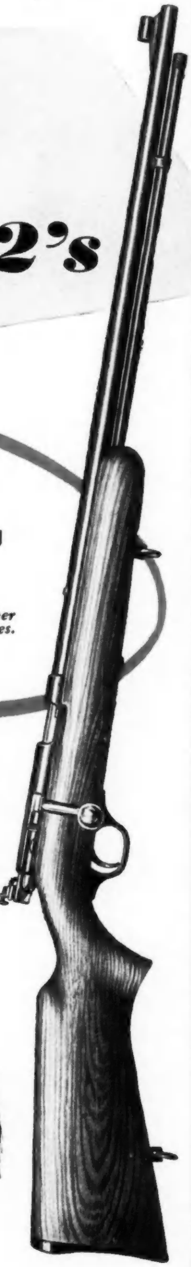

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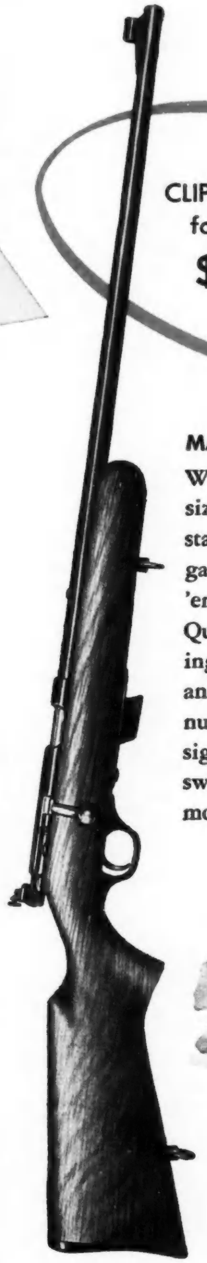

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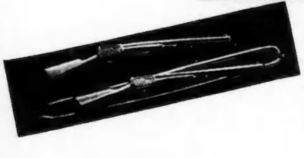

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MATCH

Make your pistol tournament cartridges *Winchester*... both indoors and outdoors. You'll find their superior accuracy and uniform recoil a great help in boosting your scores. The Winchester EZXS 22 L. R., 38 Special Match, 38 Special Mid-Range Sharp Corner Match and 45 Automatic Match Cartridges are all high-accuracy, recommended match cartridges.

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